

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☐**APPLICATION FOR PERMIT TO DRILL****1. WELL NAME and NUMBER**

Bonanza 1023-6N1CS

2. TYPE OF WORKDRILL NEW WELL ☒ REENTER P&A WELL ☐ DEEPEN WELL ☐**3. FIELD OR WILDCAT**

NATURAL BUTTES

4. TYPE OF WELL

Gas Well Coalbed Methane Well: NO

5. UNIT or COMMUNITIZATION AGREEMENT NAME**6. NAME OF OPERATOR**

KERR-MCGEE OIL & GAS ONSHORE, L.P.

7. OPERATOR PHONE

720 929-6587

8. ADDRESS OF OPERATOR

P.O. Box 173779, Denver, CO, 80217

9. OPERATOR E-MAIL

mary.mondragon@anadarko.com

**10. MINERAL LEASE NUMBER
(FEDERAL, INDIAN, OR STATE)**

UTU 38419

11. MINERAL OWNERSHIPFEDERAL ☒ INDIAN ☐ STATE ☐ FEE ☐**12. SURFACE OWNERSHIP**FEDERAL ☒ INDIAN ☐ STATE ☐ FEE ☐**13. NAME OF SURFACE OWNER (if box 12 = 'fee')****14. SURFACE OWNER PHONE (if box 12 = 'fee')****15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')****16. SURFACE OWNER E-MAIL (if box 12 = 'fee')****17. INDIAN ALLOTTEE OR TRIBE NAME
(if box 12 = 'INDIAN')****18. INTEND TO COMMINGLE PRODUCTION FROM
MULTIPLE FORMATIONS**YES ☒ (Submit Commingling Application) NO ☐**19. SLANT**VERTICAL ☐ DIRECTIONAL ☒ HORIZONTAL ☐

20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	1550 FSL 739 FWL	NWSW	6	10.0 S	23.0 E	S
Top of Uppermost Producing Zone	955 FSL 2145 FWL	SESW	6	10.0 S	23.0 E	S
At Total Depth	955 FSL 2145 FWL	SESW	6	10.0 S	23.0 E	S

21. COUNTY

UINTAH

22. DISTANCE TO NEAREST LEASE LINE (Feet)

955

23. NUMBER OF ACRES IN DRILLING UNIT

516

**25. DISTANCE TO NEAREST WELL IN SAME POOL
(Applied For Drilling or Completed)**

350

26. PROPOSED DEPTH

MD: 8840 TVD: 8400

27. ELEVATION - GROUND LEVEL

5144

28. BOND NUMBER

WYB000291

**29. SOURCE OF DRILLING WATER /
WATER RIGHTS APPROVAL NUMBER IF APPLICABLE**

Permit #43-8496

ATTACHMENTS**VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES**

WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER



COMPLETE DRILLING PLAN



AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)



FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER

DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY
DRILLED)

TOPOGRAPHICAL MAP

NAME Danielle Piernot

TITLE Regulatory Analyst

PHONE 720 929-6156

SIGNATURE

DATE 06/01/2009

EMAIL danielle.piernot@anadarko.com

API NUMBER ASSIGNED
43047504540000

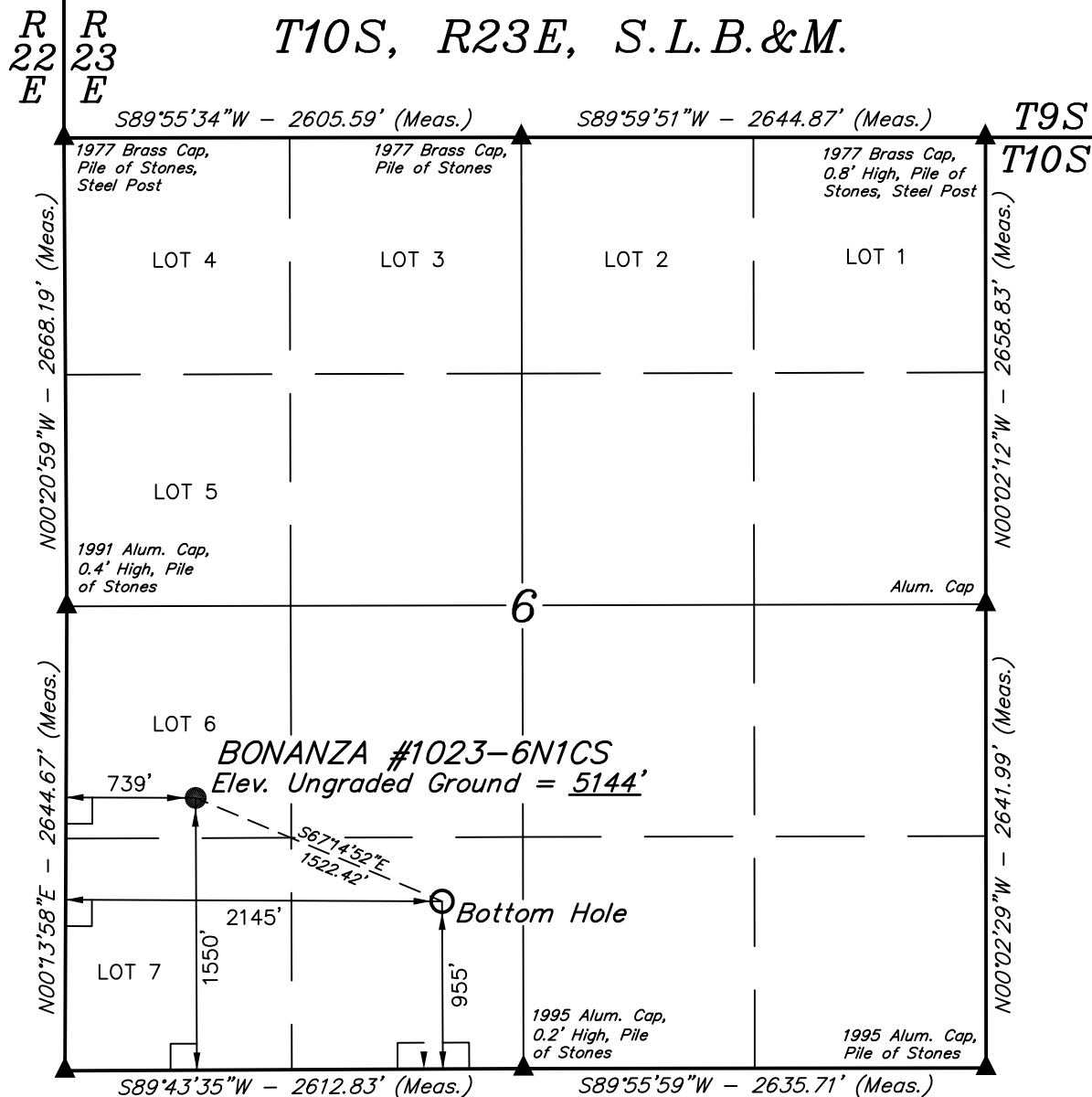
APPROVAL



Permit Manager

Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Prod	7.875	4.5	0	8840		
Pipe	Grade	Length	Weight			
	Grade I-80 LT&C	8840	11.6			

Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Surf	12.25	9.625	0	2080		
Pipe	Grade	Length	Weight			
	Grade J-55 LT&C	2080	36.0			



- LEGEND:**
- └─┘ = 90° SYMBOL
 - = PROPOSED WELL HEAD.
 - ▲ = SECTION CORNERS LOCATED.

NAD 83 (TARGET BOTTOM HOLE)	NAD 83 (SURFACE LOCATION)
LATITUDE = 39°58'23.88" (39.973300)	LATITUDE = 39°58'29.69" (39.974914)
LONGITUDE = 109°22'16.23" (109.371175)	LONGITUDE = 109°22'34.26" (109.376183)
NAD 27 (TARGET BOTTOM HOLE)	NAD 27 (SURFACE LOCATION)
LATITUDE = 39°58'24.00" (39.973333)	LATITUDE = 39°58'29.81" (39.974947)
LONGITUDE = 109°22'13.78" (109.370494)	LONGITUDE = 109°22'31.81" (109.375503)

Kerr-McGee Oil & Gas Onshore LP

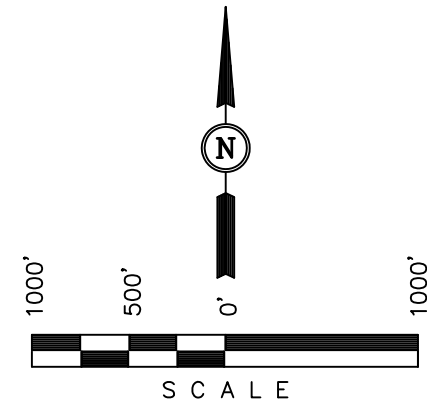
Well location, BONANZA #1023-6N1CS, located as shown in LOT 6 of Section 6, T10S, R23E, S.L.B.&M., Uintah County, Utah.

BASIS OF ELEVATION

BENCH MARK 58 EAM (1965) LOCATED IN THE NE 1/4 OF SECTION 30, T9S, R23E, S.L.B.&M. TAKEN FROM THE RED WASH SE, QUADRANGLE, UTAH, UTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5132 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

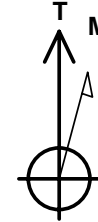
REVISED: 12-31-08 L.K.

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 10-16-08	DATE DRAWN: 10-29-08
PARTY B.B. T.B. C.C.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE Kerr-McGee Oil & Gas Onshore LP	

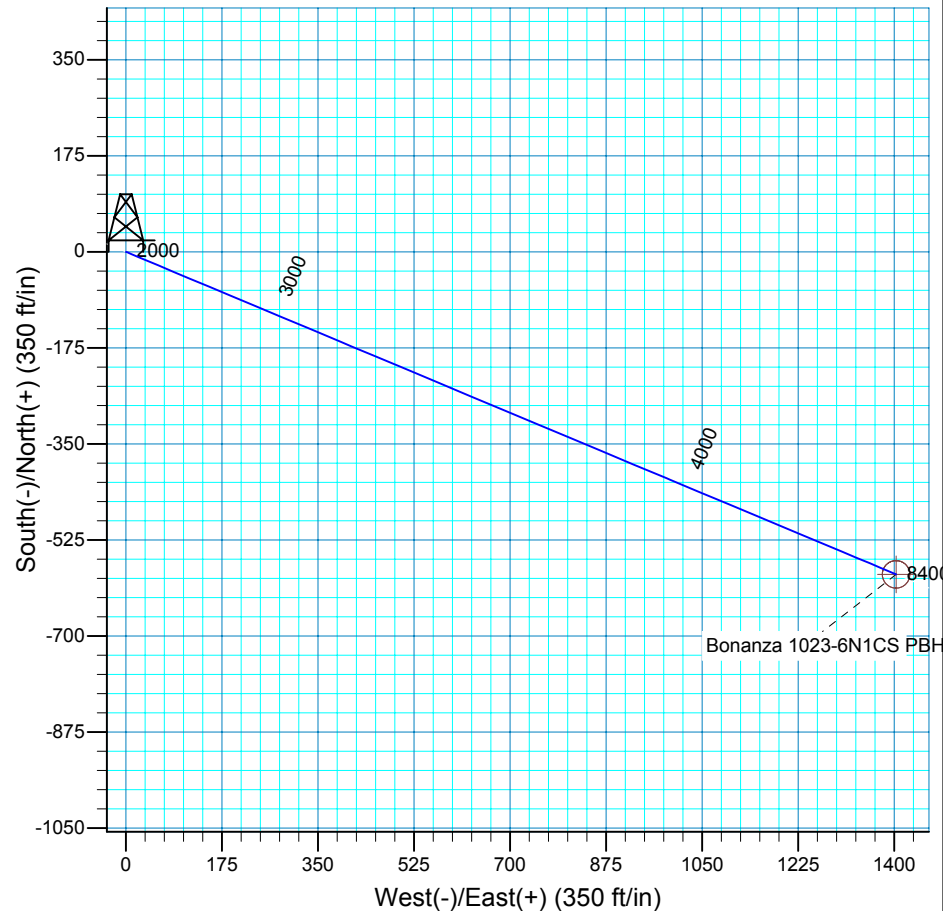
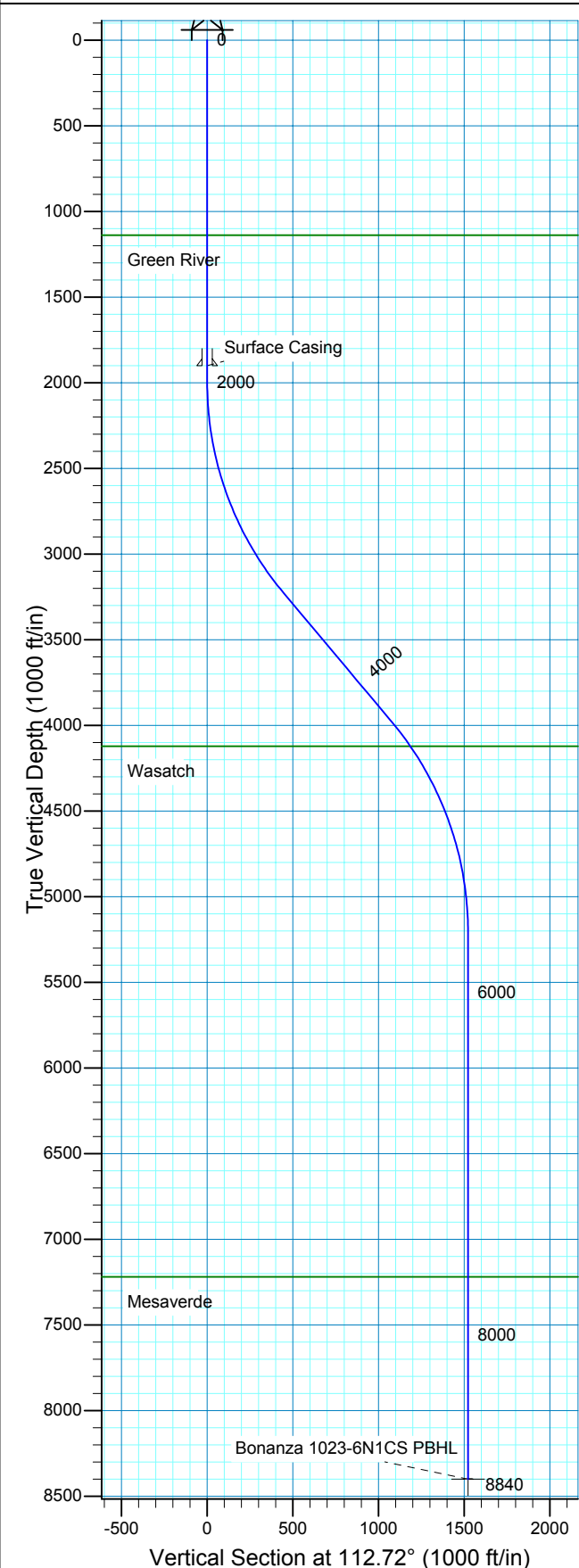
WELL DETAILS: Bonanza 1023-6N1CS

GL 5144' & RKB 18' @ 5162.00ft 5144.00
+N/-S 0.00 +E/-W 0.00 Northing 604991.65 Easting 2595329.37 Latitude 39° 58' 29.810 N Longitude 109° 22' 31.810 W



Azimuths to True North
Magnetic North: 11.31°

Magnetic Field
Strength: 52637.4snT
Dip Angle: 65.94°
Date: 2009/01/21
Model: IGRF2005-10



Plan: Plan #1 (Bonanza 1023-6N1CS/OH)

Created By: Julie Cruse Date: 2009-01-22

PROJECT DETAILS: Uintah County, UT NAD27

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: Utah Central 4302
Location: Sec 6 T10S R23E
System Datum: Mean Sea Level
Local North: True

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00	
3333.33	40.00	112.72	3227.63	-172.60	412.14	3.00	112.72	446.82	
4310.43	40.00	112.72	3976.13	-415.20	991.46	0.00	0.00	1074.89	
5643.76	0.00	0.00	5203.76	-587.80	1403.60	3.00	180.00	1521.71	
8840.00	0.00	0.00	8400.00	-587.80	1403.60	0.00	0.00	1521.71	Bonanza 1023-6N1CS PBHL



Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore LP

**Uintah County, UT NAD27
Bonanza 1023-6L Pad
Bonanza 1023-6N1CS
OH**

Plan: Plan #1

Standard Planning Report

22 January, 2009



Scientific Drilling

Planning Report

Database:	EDM 2003.16 Multi User DB	Local Co-ordinate Reference:	Well Bonanza 1023-6N1CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5144' & RKB 18' @ 5162.00ft
Project:	Uintah County, UT NAD27	MD Reference:	GL 5144' & RKB 18' @ 5162.00ft
Site:	Bonanza 1023-6L Pad	North Reference:	True
Well:	Bonanza 1023-6N1CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Project	Uintah County, UT NAD27		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Utah Central 4302		

Site	Bonanza 1023-6L Pad, Sec 6 T10S R23E				
Site Position:		Northing:	605,076.57 ft	Latitude:	39° 58' 30.640 N
From:	Lat/Long	Easting:	2,595,367.85 ft	Longitude:	109° 22' 31.290 W
Position Uncertainty:	0.00 ft	Slot Radius:	in	Grid Convergence:	1.36 °

Well	Bonanza 1023-6N1CS, 1550' FSL 739' FWL					
Well Position	+N/-S	0.00 ft	Northing:	604,991.65 ft	Latitude:	39° 58' 29.810 N
	+E/-W	0.00 ft	Easting:	2,595,329.37 ft	Longitude:	109° 22' 31.810 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,144.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2005-10	2009/01/21	11.31	65.94	52,637

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	112.72

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,333.33	40.00	112.72	3,227.63	-172.60	412.14	3.00	3.00	0.00	112.72	
4,310.43	40.00	112.72	3,976.13	-415.20	991.46	0.00	0.00	0.00	0.00	
5,643.76	0.00	0.00	5,203.76	-587.80	1,403.60	3.00	-3.00	0.00	180.00	
8,840.00	0.00	0.00	8,400.00	-587.80	1,403.60	0.00	0.00	0.00	0.00	Bonanza 1023-6N1CS



Scientific Drilling

Planning Report

Database:	EDM 2003.16 Multi User DB	Local Co-ordinate Reference:	Well Bonanza 1023-6N1CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5144' & RKB 18' @ 5162.00ft
Project:	Uintah County, UT NAD27	MD Reference:	GL 5144' & RKB 18' @ 5162.00ft
Site:	Bonanza 1023-6L Pad	North Reference:	True
Well:	Bonanza 1023-6N1CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,138.00	0.00	0.00	1,138.00	0.00	0.00	0.00	0.00	0.00	0.00
Green River									
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
Surface Casing									
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	3.00	112.72	2,099.95	-1.01	2.41	2.62	3.00	3.00	0.00
2,200.00	6.00	112.72	2,199.63	-4.04	9.65	10.46	3.00	3.00	0.00
2,300.00	9.00	112.72	2,298.77	-9.08	21.69	23.51	3.00	3.00	0.00
2,400.00	12.00	112.72	2,397.08	-16.12	38.50	41.74	3.00	3.00	0.00
2,500.00	15.00	112.72	2,494.31	-25.14	60.03	65.08	3.00	3.00	0.00
2,600.00	18.00	112.72	2,590.18	-36.11	86.22	93.48	3.00	3.00	0.00
2,700.00	21.00	112.72	2,684.43	-49.00	117.01	126.85	3.00	3.00	0.00
2,800.00	24.00	112.72	2,776.81	-63.78	152.30	165.12	3.00	3.00	0.00
2,900.00	27.00	112.72	2,867.06	-80.41	192.01	208.16	3.00	3.00	0.00
3,000.00	30.00	112.72	2,954.93	-98.84	236.01	255.87	3.00	3.00	0.00
3,100.00	33.00	112.72	3,040.18	-119.02	284.20	308.12	3.00	3.00	0.00
3,200.00	36.00	112.72	3,122.59	-140.89	336.44	364.75	3.00	3.00	0.00
3,300.00	39.00	112.72	3,201.91	-164.41	392.58	425.62	3.00	3.00	0.00
3,333.33	40.00	112.72	3,227.63	-172.60	412.14	446.82	3.00	3.00	0.00
3,400.00	40.00	112.72	3,278.70	-189.15	451.67	489.67	0.00	0.00	0.00
3,500.00	40.00	112.72	3,355.31	-213.98	510.96	553.95	0.00	0.00	0.00
3,600.00	40.00	112.72	3,431.91	-238.81	570.25	618.23	0.00	0.00	0.00
3,700.00	40.00	112.72	3,508.52	-263.64	629.54	682.51	0.00	0.00	0.00
3,800.00	40.00	112.72	3,585.12	-288.47	688.83	746.79	0.00	0.00	0.00
3,900.00	40.00	112.72	3,661.73	-313.30	748.12	811.07	0.00	0.00	0.00
4,000.00	40.00	112.72	3,738.33	-338.13	807.41	875.35	0.00	0.00	0.00
4,100.00	40.00	112.72	3,814.93	-362.96	866.70	939.63	0.00	0.00	0.00
4,200.00	40.00	112.72	3,891.54	-387.78	925.98	1,003.90	0.00	0.00	0.00
4,300.00	40.00	112.72	3,968.14	-412.61	985.27	1,068.18	0.00	0.00	0.00
4,310.43	40.00	112.72	3,976.13	-415.20	991.46	1,074.89	0.00	0.00	0.00
4,400.00	37.31	112.72	4,046.07	-436.81	1,043.06	1,130.83	3.00	-3.00	0.00
4,493.75	34.50	112.72	4,122.00	-458.05	1,093.77	1,185.81	3.00	-3.00	0.00
Wasatch									
4,500.00	34.31	112.72	4,127.16	-459.41	1,097.03	1,189.34	3.00	-3.00	0.00



Scientific Drilling

Planning Report

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Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5144' & RKB 18' @ 5162.00ft
Project:	Uintah County, UT NAD27	MD Reference:	GL 5144' & RKB 18' @ 5162.00ft
Site:	Bonanza 1023-6L Pad	North Reference:	True
Well:	Bonanza 1023-6N1CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,600.00	31.31	112.72	4,211.19	-480.34	1,147.00	1,243.52	3.00	-3.00	0.00
4,700.00	28.31	112.72	4,297.95	-499.55	1,192.86	1,293.23	3.00	-3.00	0.00
4,800.00	25.31	112.72	4,387.19	-516.97	1,234.46	1,338.34	3.00	-3.00	0.00
4,900.00	22.31	112.72	4,478.66	-532.56	1,271.70	1,378.71	3.00	-3.00	0.00
5,000.00	19.31	112.72	4,572.13	-546.29	1,304.47	1,414.23	3.00	-3.00	0.00
5,100.00	16.31	112.72	4,667.32	-558.10	1,332.68	1,444.82	3.00	-3.00	0.00
5,200.00	13.31	112.72	4,763.99	-567.97	1,356.26	1,470.38	3.00	-3.00	0.00
5,300.00	10.31	112.72	4,861.86	-575.88	1,375.14	1,490.85	3.00	-3.00	0.00
5,400.00	7.31	112.72	4,960.67	-581.80	1,389.27	1,506.17	3.00	-3.00	0.00
5,500.00	4.31	112.72	5,060.14	-585.71	1,398.61	1,516.30	3.00	-3.00	0.00
5,600.00	1.31	112.72	5,160.01	-587.61	1,403.13	1,521.21	3.00	-3.00	0.00
5,643.76	0.00	0.00	5,203.76	-587.80	1,403.60	1,521.71	3.00	-3.00	-257.60
5,700.00	0.00	0.00	5,260.00	-587.80	1,403.60	1,521.71	0.00	0.00	0.00
5,800.00	0.00	0.00	5,360.00	-587.80	1,403.60	1,521.71	0.00	0.00	0.00
5,900.00	0.00	0.00	5,460.00	-587.80	1,403.60	1,521.71	0.00	0.00	0.00
6,000.00	0.00	0.00	5,560.00	-587.80	1,403.60	1,521.71	0.00	0.00	0.00
6,100.00	0.00	0.00	5,660.00	-587.80	1,403.60	1,521.71	0.00	0.00	0.00
6,200.00	0.00	0.00	5,760.00	-587.80	1,403.60	1,521.71	0.00	0.00	0.00
6,300.00	0.00	0.00	5,860.00	-587.80	1,403.60	1,521.71	0.00	0.00	0.00
6,400.00	0.00	0.00	5,960.00	-587.80	1,403.60	1,521.71	0.00	0.00	0.00
6,500.00	0.00	0.00	6,060.00	-587.80	1,403.60	1,521.71	0.00	0.00	0.00
6,600.00	0.00	0.00	6,160.00	-587.80	1,403.60	1,521.71	0.00	0.00	0.00
6,700.00	0.00	0.00	6,260.00	-587.80	1,403.60	1,521.71	0.00	0.00	0.00
6,800.00	0.00	0.00	6,360.00	-587.80	1,403.60	1,521.71	0.00	0.00	0.00
6,900.00	0.00	0.00	6,460.00	-587.80	1,403.60	1,521.71	0.00	0.00	0.00
7,000.00	0.00	0.00	6,560.00	-587.80	1,403.60	1,521.71	0.00	0.00	0.00
7,100.00	0.00	0.00	6,660.00	-587.80	1,403.60	1,521.71	0.00	0.00	0.00
7,200.00	0.00	0.00	6,760.00	-587.80	1,403.60	1,521.71	0.00	0.00	0.00
7,300.00	0.00	0.00	6,860.00	-587.80	1,403.60	1,521.71	0.00	0.00	0.00
7,400.00	0.00	0.00	6,960.00	-587.80	1,403.60	1,521.71	0.00	0.00	0.00
7,500.00	0.00	0.00	7,060.00	-587.80	1,403.60	1,521.71	0.00	0.00	0.00
7,600.00	0.00	0.00	7,160.00	-587.80	1,403.60	1,521.71	0.00	0.00	0.00
7,659.00	0.00	0.00	7,219.00	-587.80	1,403.60	1,521.71	0.00	0.00	0.00
Mesaverde									
7,700.00	0.00	0.00	7,260.00	-587.80	1,403.60	1,521.71	0.00	0.00	0.00
7,800.00	0.00	0.00	7,360.00	-587.80	1,403.60	1,521.71	0.00	0.00	0.00
7,900.00	0.00	0.00	7,460.00	-587.80	1,403.60	1,521.71	0.00	0.00	0.00
8,000.00	0.00	0.00	7,560.00	-587.80	1,403.60	1,521.71	0.00	0.00	0.00
8,100.00	0.00	0.00	7,660.00	-587.80	1,403.60	1,521.71	0.00	0.00	0.00
8,200.00	0.00	0.00	7,760.00	-587.80	1,403.60	1,521.71	0.00	0.00	0.00
8,300.00	0.00	0.00	7,860.00	-587.80	1,403.60	1,521.71	0.00	0.00	0.00
8,400.00	0.00	0.00	7,960.00	-587.80	1,403.60	1,521.71	0.00	0.00	0.00
8,500.00	0.00	0.00	8,060.00	-587.80	1,403.60	1,521.71	0.00	0.00	0.00
8,600.00	0.00	0.00	8,160.00	-587.80	1,403.60	1,521.71	0.00	0.00	0.00
8,700.00	0.00	0.00	8,260.00	-587.80	1,403.60	1,521.71	0.00	0.00	0.00
8,800.00	0.00	0.00	8,360.00	-587.80	1,403.60	1,521.71	0.00	0.00	0.00
8,840.00	0.00	0.00	8,400.00	-587.80	1,403.60	1,521.71	0.00	0.00	0.00



Scientific Drilling

Planning Report

Database:	EDM 2003.16 Multi User DB	Local Co-ordinate Reference:	Well Bonanza 1023-6N1CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5144' & RKB 18' @ 5162.00ft
Project:	Uintah County, UT NAD27	MD Reference:	GL 5144' & RKB 18' @ 5162.00ft
Site:	Bonanza 1023-6L Pad	North Reference:	True
Well:	Bonanza 1023-6N1CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
Bonanza 1023-6N1CS F	0.00	0.00	8,400.00	-587.80	1,403.60	604,437.35	2,596,746.53	39° 58' 24.000 N	109° 22' 13.780 W
- plan hits target center									
- Circle (radius 25.00)									

Casing Points					
	Measured Depth	Vertical Depth		Casing Diameter	Hole Diameter
	(ft)	(ft)	Name	(in)	(in)
	1,900.00	1,900.00	Surface Casing	9.625	13.500

Formations						
	Measured Depth	Vertical Depth			Dip	Dip Direction
	(ft)	(ft)	Name	Lithology	(°)	(°)
	1,138.00	1,138.00	Green River		0.00	
	4,493.75	4,122.00	Wasatch		0.00	
	7,659.00	7,219.00	Mesaverde		0.00	

Bonanza 1023-6N1CS

Pad: Bonanza 1023-6L

Surface: 1,550' FSL, 739' FWL (NW/4SW/4) Lot 6

BHL: 955' FSL 2,145' FWL (SE/4SW/4)

Sec. 6 T10S R23E

Uintah, Utah

Mineral Lease: UTU 38419

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. – 2. **Estimated Tops of Important Geologic Markers:**
Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 – Surface	
Green River	1,138'	
Birds Nest	1,375'	Water
Mahogany	1,877'	Water
Wasatch	4,122'	Gas
Mesaverde	6,276'	Gas
MVU2	7,219'	Gas
MVL1	7,778'	Gas
TVD	8,400'	
TD	8,840'	

3. **Pressure Control Equipment** (Schematic Attached)

Please refer to the attached Drilling Program.

4. **Proposed Casing & Cementing Program:**

Please refer to the attached Drilling Program.

5. **Drilling Fluids Program:**

Please refer to the attached Drilling Program.

6. **Evaluation Program:**

Please refer to the attached Drilling Program.

7. Abnormal Conditions:

Maximum anticipated bottomhole pressure calculated at 8,840' TD, approximately equals 4,972 psi (calculated at 0.59 psi/foot).

Maximum anticipated surface pressure equals approximately 3,124 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. Anticipated Starting Dates:

Drilling is planned to commence immediately upon approval of this application.

9. Variances:

Please refer to the attached Drilling Program.

Onshore Order #2 – Air Drilling Variance

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- *Blowout Prevention Equipment (BOPE) requirements;*
- *Mud program requirements; and*
- *Special drilling operation (surface equipment placement) requirements associated with air drilling.*

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

Background

In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 12-1/4 inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 12-1/4 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 9-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

Variance for BOPE Requirements

The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

Variance for Mud Material Requirements

Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement) Requirements

Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

Conclusion

The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

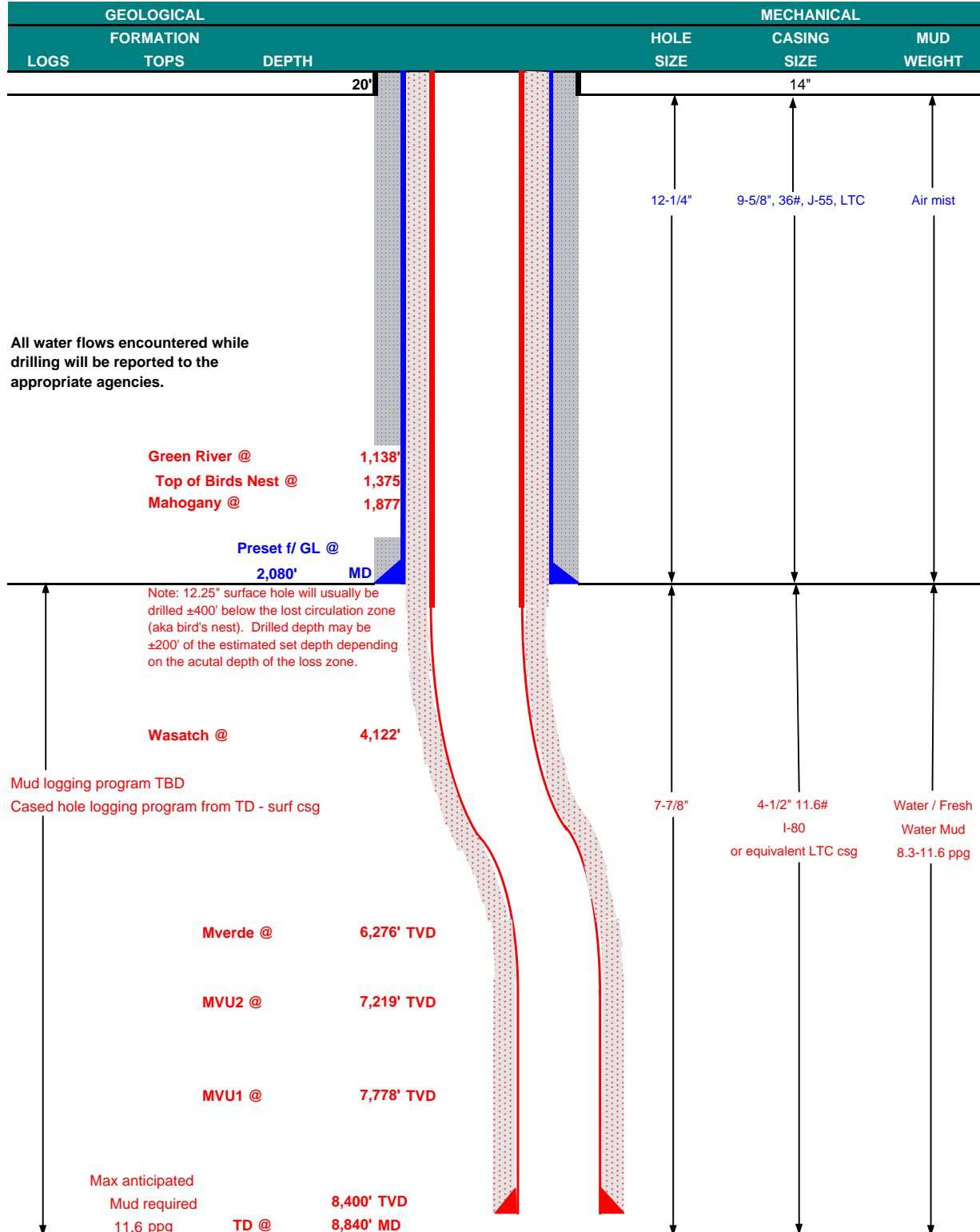
10. Other Information:

Please refer to the attached Drilling Program.



KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP					DATE	May 27, 2009		
WELL NAME	Bonanza 1023-6N1CS					TD	8,400'	TVD	8,840' MD
FIELD	Natural Buttes		COUNTY	Uintah	STATE	Utah	ELEVATION	5,144' GL	KB 5,159'
SURFACE LOCATION	NW/4 SW/4	1,550' FSL	739' FWL	Sec 6	T 10S	R 23E	Lot 6		
	Latitude:	39.974914	Longitude:	-109.376183			NAD 83		
BTM HOLE LOCATION	SE/4 SW/4	955' FSL	2,145' FWL	Sec 6	T 10S	R 23E			
	Latitude:	39.973300	Longitude:	-109.371175			NAD 83		
OBJECTIVE ZONE(S)	Wasatch/Mesaverde								
ADDITIONAL INFO	Regulatory Agencies: BLM (Minerals), BLM (Surface), Tri-County Health Dept.								





KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'				3520	2020	453000
SURFACE	9-5/8"	0 to 2,080	36.00	J-55	LTC	1.04	2.08	7.70
						7,780	6,350	201,000
PRODUCTION	4-1/2"	0 to 8,840	11.60	I-80	LTC	2.42	1.25	2.25

1) Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))

2) MASP (Prod Casing) = Pore Pressure at TD - (0.22 psi/ft-partial evac gradient x TD)

(Burst Assumptions: TD = 11.6 ppg)

0.22 psi/ft = gradient for partially evac wellbore

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

MASP 3,124 psi

3) Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

(Burst Assumptions: TD = 11.6 ppg)

0.59 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

MABHP 4,972 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500	Premium cmt + 2% CaCl	215	60%	15.60	1.18
			+ 0.25 pps flocele				
Option 1	TOP OUT CMT (1)	200	20 gals sodium silicate + Premium cmt	50		15.60	1.18
			+ 2% CaCl + 0.25 pps flocele				
	TOP OUT CMT (2)	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
SURFACE		NOTE: If well will circulate water to surface, option 2 will be utilized					
Option 2	LEAD	1500	65/35 Poz + 6% Gel + 10 pps gilsonite	360	35%	12.60	1.81
			+ .25 pps Flocele + 3% salt BWOW				
	TAIL	500	Premium cmt + 2% CaCl	180	35%	15.60	1.18
			+ 0.25 pps flocele				
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	3,620'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	340	40%	11.00	3.38
	TAIL	5,220'	50/50 Poz/G + 10% salt + 2% gel + .1% R-3	1280	40%	14.30	1.31

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. No centralizers will be used.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER:

John Huycke / Grant Schluender

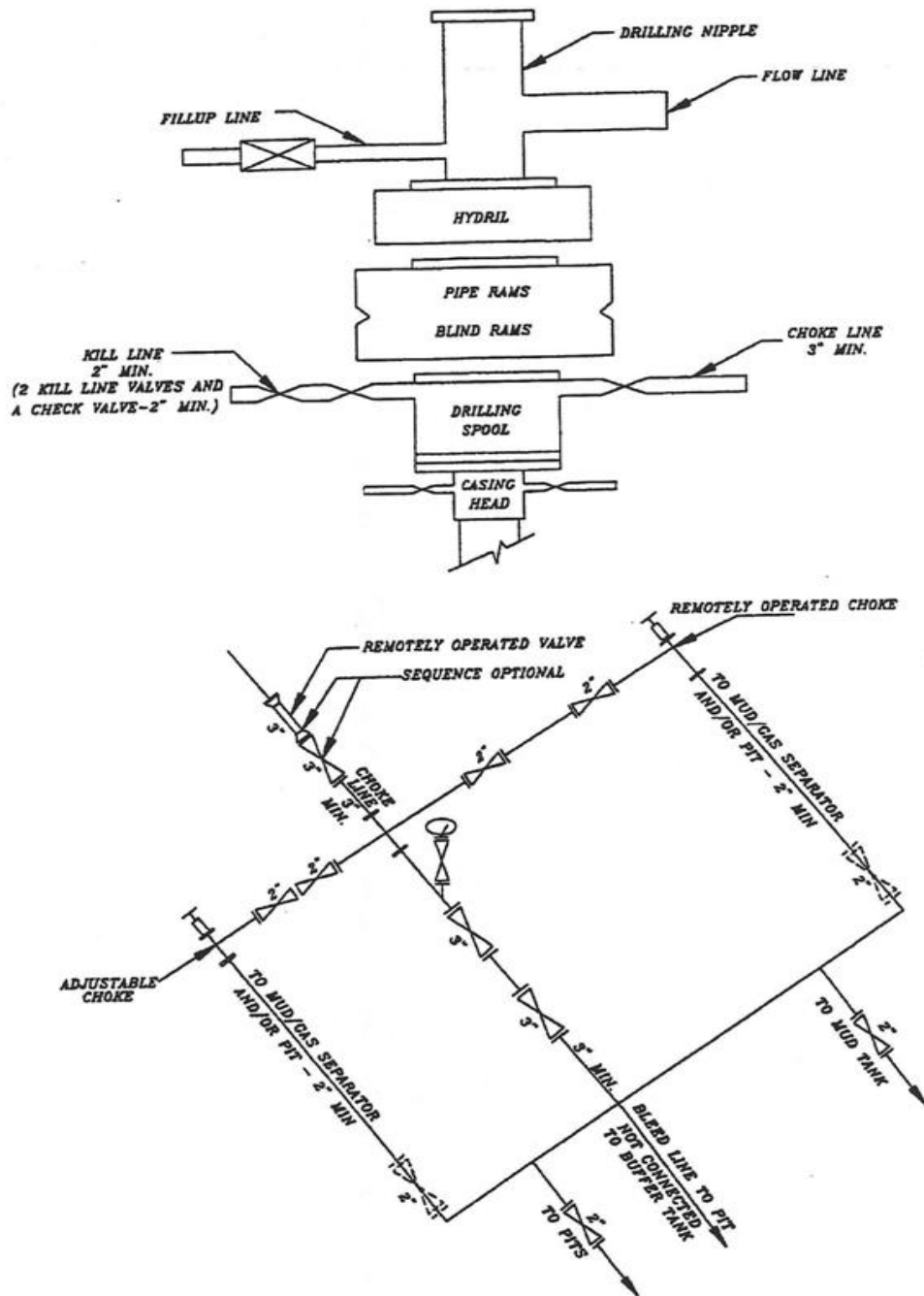
DATE:

DRILLING SUPERINTENDENT:

John Merkel / Lovel Young

DATE:

EXHIBIT A
Bonanza 1023-6N1CS



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

Kerr-McGee Oil & Gas Onshore LP

LOCATION LAYOUT FOR

BONANZA #1023-6M1BS, #1023-6N4BS, #1023-6N1CS & #1023-6N1AS
SECTION 6, T10S, R23E, S.L.B.&M.
LOT 6

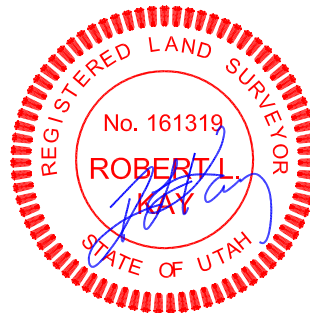
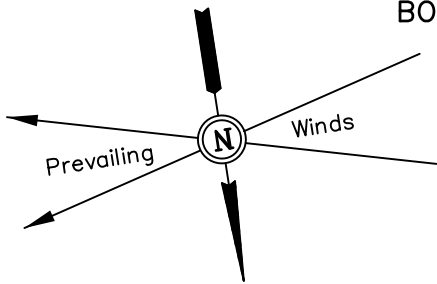
FIGURE #1

SCALE: 1" = 50'

DATE: 10-29-08

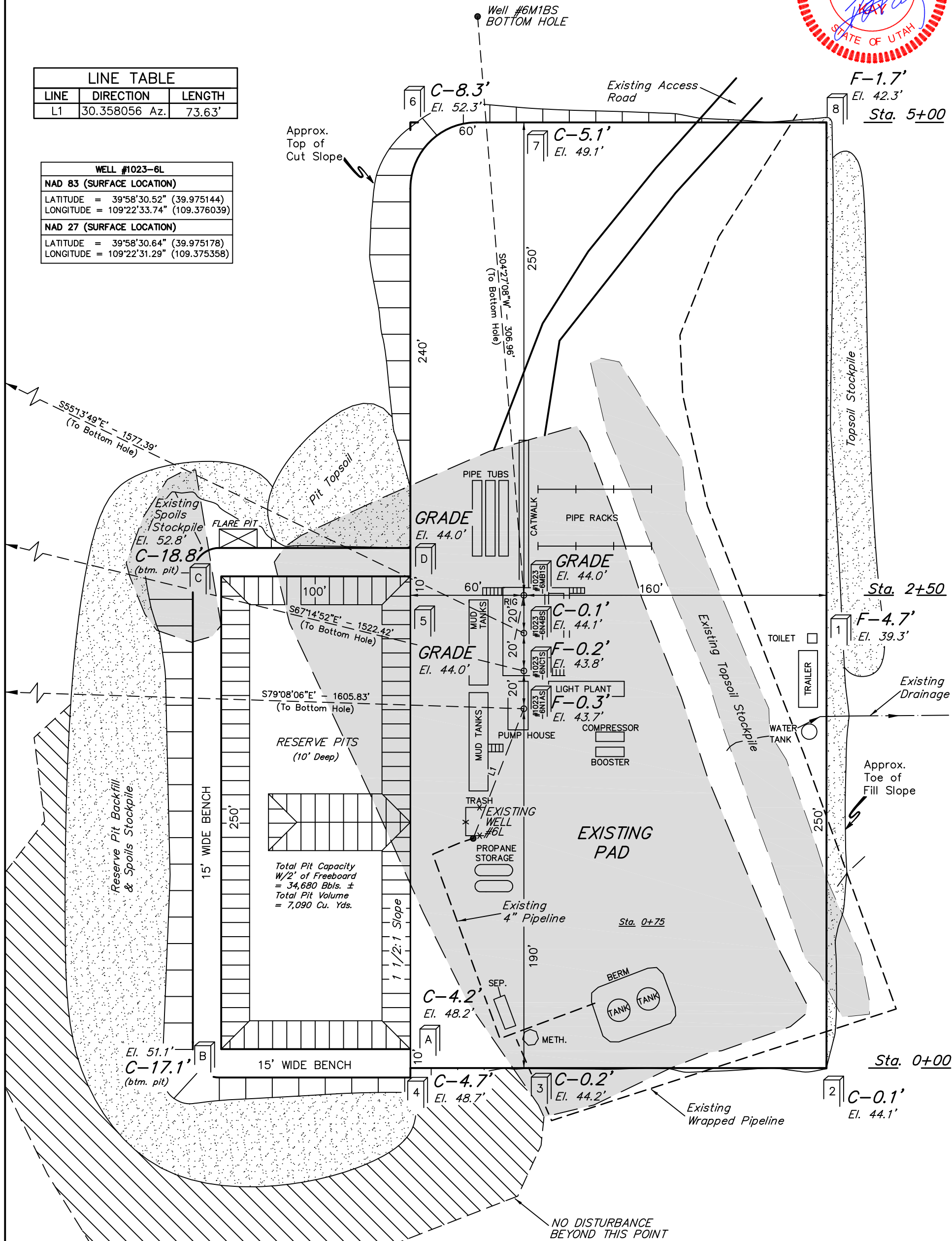
Drawn By: C.C.

REVISED: 12-31-08 L.K.



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	30.358056 Az.	73.63'

WELL #1023-6L	
NAD 83 (SURFACE LOCATION)	
LATITUDE	= 39°58'30.52" (39.975144)
LONGITUDE	= 109°22'33.74" (109.376039)
NAD 27 (SURFACE LOCATION)	
LATITUDE	= 39°58'30.64" (39.975178)
LONGITUDE	= 109°22'31.29" (109.375358)



Elev. Ungraded Ground At #6M1BS Loc. Stake = 5144.0'
Elev. Graded Ground at #6M1BS Location Stake = 5144.0'

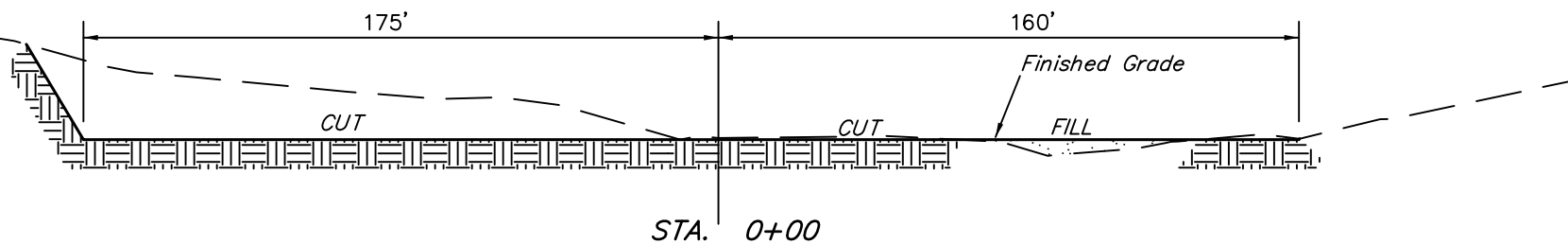
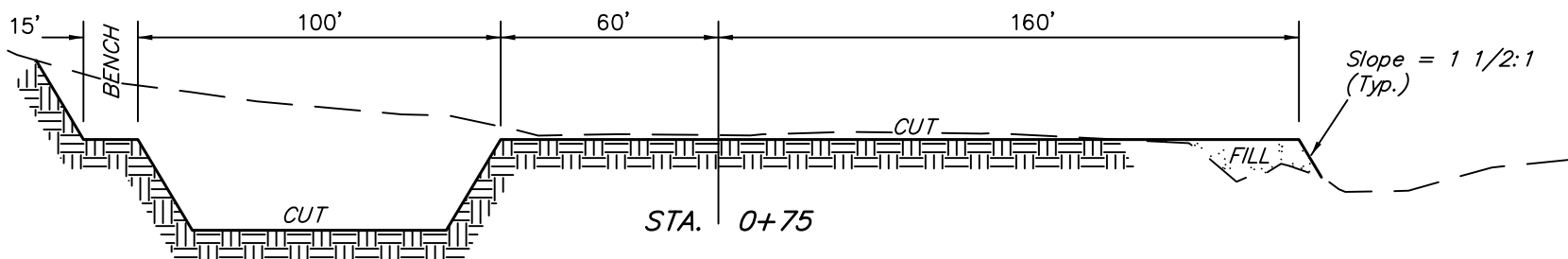
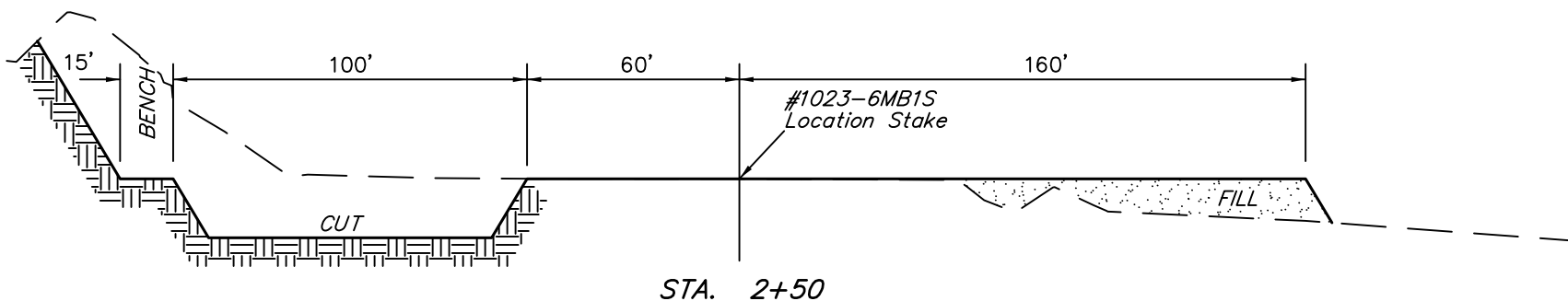
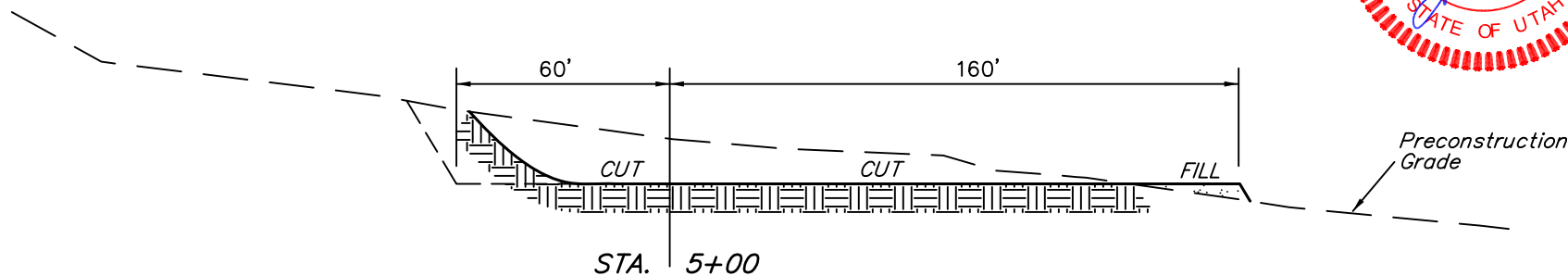
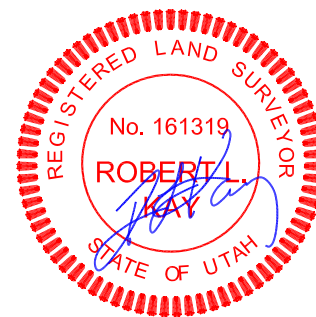
Kerr-McGee Oil & Gas Onshore LP

TYPICAL CROSS SECTIONS FOR

BONANZA #1023-6M1BS, #1023-6N4BS, #1023-6N1CS & #1023-6N1AS
SECTION 6, T10S, R23E, S.L.B.&M.
LOT 6

FIGURE #2

1" = 20'
X-Section
Scale
1" = 50'
DATE: 10-29-08
Drawn By: C.C.
REVISED: 12-31-08 L.K.



APPROXIMATE ACREAGES

EXISTING WELL SITE DISTURBANCE = ±1.252 ACRES
PROPOSED WELL SITE DISTURBANCE = ±3.587 ACRES
PROPOSED WELL SITE DISTURBANCE = ±4.839 ACRES

* NOTE:
FILL QUANTITY INCLUDES
5% FOR COMPACTION

APPROXIMATE YARDAGES

CUT
(6") Topsoil Stripping = 1,880 Cu. Yds.
(New Construction Only)
Remaining Location = 16,950 Cu. Yds.
TOTAL CUT = 18,830 CU.YDS.
FILL = 3,890 CU.YDS.

EXCESS MATERIAL = 14,940 Cu. Yds.
Topsoil & Pit Backfill = 5,430 Cu. Yds.
(1/2 Pit Vol.)
EXCESS UNBALANCE = 9,510 Cu. Yds.
(After Interim Rehabilitation)

Kerr-McGee Oil & Gas Onshore LP
BONANZA #1023-06M1BS, #1023-06N1AS,
#1023-06N1CS & #1023-06N4BS
LOCATED IN UINTAH COUNTY, UTAH
SECTION 6, T10S, R23E, S.L.B.&M.



PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKES

CAMERA ANGLE: WESTERLY



PHOTO: VIEW OF EXISTING ACCESS

CAMERA ANGLE: NORTHEASTERLY



- Since 1964 -

UELS Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

LOCATION PHOTOS

10 28 08
MONTH DAY YEAR

PHOTO

TAKEN BY: B.B.

DRAWN BY: C.H.

REVISED: 01-02-09 S.P.

Kerr-McGee Oil & Gas Onshore LP
BONANZA #1023-06M1BS, #1023-06N1AS, #1023-
06N1CS & #1023-06N4BS
SECTION 6, T10S, R23E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 0.3 MILES ON THE SEEP RIDGE ROAD TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 12.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN RIGHT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 1.7 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 1.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN RIGHT AND PROCEED IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 0.5 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 3.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 0.7 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY, THEN SOUTHERLY DIRECTION APPROXIMATELY 1.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN RIGHT AND PROCEED IN A SOUTHERLY, THEN SOUTHWESTERLY, THEN SOUTHERLY, THEN EASTERLY DIRECTION APPROXIMATELY 2.0 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTH; TURN LEFT AND PROCEED IN A NORTHERLY DIRECTION APPROXIMATELY 0.2 MILES TO THE #1023-7D AND AN EXISTING ROAD TO THE NORTHEAST; TURN RIGHT AND PROCEED IN A NORTHEASTERLY, THEN NORTHWESTERLY DIRECTION APPROXIMATELY 0.4 MILES TO THE #1023-6M AND AN EXISTING ROAD TO THE NORTHEAST; TURN RIGHT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 0.1 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 56.3 MILES.

Bonanza 1023-6M1BS

Surface: 1,511' FSL 733' FWL (NW/4 SW/4) – Lot 6

BHL: 1,511' FSL 710' FWL (SW/4 SW/4) – Lot 7

Bonanza 1023-6N1AS

Surface: 1,570' FSL 742' FWL (NW/4 SW/4) – Lot 6

BHL: 1,260' FSL 2,320' FWL (SE/4 SW/4)

Bonanza 1023-6N1CS

Surface: 1,550' FSL 739' FWL (NW/4 SW/4) – Lot 6

BHL: 955' FSL 2,145' FWL (SE/4 SW/4)

Bonanza 1023-6N4BS

Surface: 1,531' FSL 736' FWL (NW/4 SW/4) – Lot 6

BHL: 625' FSL 2,035' FWL (SE/4 SW/4)

Pad: Bonanza 1023-6L

Sec. 6 T10S R23E

Uintah, Utah

Mineral Lease: UTU 38419

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

This Application for Permit to Drill (APD) is filed under the Notice of Staking (NOS) process as stated in Onshore Order No. 1 (OSO #1) and supporting Bureau of Land Management (BLM) documents. An NOS was submitted in January 2009 showing the surface locations in NW/4 NE/4 of Section 6 T10S R23E.

This Surface Use Plan of Operations (SUPO) or 13-point plan is submitted under the Master Development Plan (MDP) for Kerr-McGee Oil & Gas Onshore LP (Kerr-McGee) and provides details specific to this pad. General information is provided in the MDP, which is available upon request and at the BLM-Vernal Field Office.

An on-site meeting was held on February 3, 2009. Present were:

- Verlyn Pindell, Dave Gordon, Scott Ackerman, Karl Wright – BLM;
- David Kay – Uintah Engineering & Land Surveying;
- Kolby Kay – 609 Consulting, LLC
- Tony Kazeck, Clay Einerson, Raleen White, Ramey Hoopes, Grizz Oleen, Charles Chase and Spencer Biddle – Kerr-McGee.

Directional Drilling:

In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, this well will be directionally drilled in order to access portions of our lease which are otherwise inaccessible due to topography.

This pad will be expanding the existing Bonanza 1023-6L well pad.

1. Existing Roads:

- A) Refer to Topo Map A for directions to the location.
- B) Refer to Topo Maps A and B for location of access roads within a 2-mile radius.
- C) Refer to Topo Maps A and B for location of access roads within a 2-mile radius.

2. Planned Access Roads:

See MDP for additional details on road construction.

No new access road is proposed. Please refer to the attached Topo Map B. No pipelines will be crossed with the new construction.

The upgraded and new portions of the access road will be crowned and ditched with a running surface of 18 feet and a maximum disturbed width of 30 feet. There will be no turn outs.

Existence of pipelines; maximum grade; turnouts; major cut and fills, culverts, or bridges; gates, cattle guards, fence cuts, or modifications to existing facilities were determined at the on-site and are typically shown on the attached Exhibits and Topo maps.

Surfacing material may be necessary, depending upon weather conditions.

3. Location of Existing Wells within a 1-Mile Radius:

Please refer to Topo Map C.

4. Location of Existing and Proposed Facilities:

See MDP for additional details on Existing and Proposed Facilities.

The following guidelines will apply if the well is productive.

All production facilities will be located on the disturbed portion of the well pad and at a minimum of 25 feet from the toe of the back slope or the top of the fill slope.

A dike will be constructed completely around those production facilities which contain fluids (i.e., production tanks, produced water tanks, and/or heater/treater). These dikes will be constructed of compacted subsoil, be impervious, hold 100% of the capacity of the largest tank, and be independent of the back cut.

All permanent (on-site six months or longer) above the ground structures constructed or installed, including pumping units, will be painted a flat, non-reflective, earthtone color to match one of the standard environmental colors, as determined by the five state Rocky Mountain Inter-Agency Committee. All facilities will be painted within six months of installation. The required color is Shadow Gray, a non-reflective earthtone, or as specified by BLM. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded.

Approximately $\pm 400'$ of 4" pipeline will be upgraded to 8" pipeline. Refer to Topo D for the existing pipeline. Pipeline segments will be welded or zaplocked together on disturbed areas in or near the location, whenever possible, and dragged into place

5. Location and Type of Water Supply:

See MDP for additional details on Location and Type of Water Supply.

Water for drilling purposes will be obtained from Dalbo Inc.'s underground well located in Ouray, Utah, Sec. 32 T4S R3E, Water User Claim #43-8496, Application #53617.

Water will be hauled to location over the roads marked on Maps A and B.

No water well is to be drilled on this lease.

6. Source of Construction Materials:

See MDP for additional details on Source of Construction Materials.

Surface and subsoil materials in the immediate area will be utilized.

If needed, gravel will be obtained from a commercial source.

7. Methods of Handling Waste Materials:

See MDP for additional details on Methods of Handling Waste Materials.

Any produced water from the proposed well will be contained in a water tank and will then be hauled by truck to one of the pre-approved disposal sites:

RNI in Sec. 5 T9S R22E

NBU #159 in Sec. 35 T9S R21E

Ace Oilfield in Sec. 2 T6S R20E

MC&MC in Sec. 12 T6S R19E

Pipeline Facility in Sec. 36 T9S R20E

Goat Pasture Evaporation Pond in SW/4 Sec. 16 T10S R22E

Bonanza Evaporation Pond in Sec. 2 T10S R23E.

8. Ancillary Facilities:

See MDP for additional details on Ancillary Facilities.

None are anticipated.

9. Well Site Layout: (See Location Layout Diagram)
See MDP for additional details on Well Site Layout.

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills, and locations of the mud tanks, reserve pit, flare pit, rig orientation, pipe racks, trailer parking, spoil dirt stockpile(s), and surface material stockpile(s), and access roads.

The reserve pit will be lined, and when the reserve pit is closed, the pit liner will be buried below plow depth.

All pits will be fenced according to the following minimum standards:

Net wire (39-inch) will be used with at least one strand of barbed wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.

The net wire shall be no more than two inches above the ground. The barbed wire shall be three inches over the net wire. Total height of the fence shall be at least 42 inches.

Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.

Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

All wire shall be stretched, by using a stretching device, before it is attached to corner posts.

The reserve pit fencing will be on three sides during drilling operations, and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.

Location size may change prior to the drilling of the well due to current rig availability. If the proposed location is not large enough to accommodate the drilling rig the location will be re-surveyed and a Sundry Notice Form shall be submitted.

10. Plans for Reclamation of the Surface:
See MDP for additional details on Plans for Reclamation of the Surface.

11. Surface/Mineral Ownership:

United States of America
Bureau of Land Management
170 South 500 East
Vernal, UT 84078
(435)781-4400

12. Other Information:

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, the approved MDP and SUPO, and any applicable Notice of Lessees. The Operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

A Class III archaeological survey report and paleontological survey report is attached.

The operator is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator is to immediately stop work that might further disturb such materials, and contact the AO. Within five (5) working days the AO will inform the operator as to:

- whether the materials appear eligible for the National Register of Historic Places;
- the mitigation measures the operator will likely have to undertake before the site can be used (assuming in site preservation is not necessary); and,
- a timeframe for the AO to complete an expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the finds of the AO are correct and that mitigation is appropriate.

If the operator wishes, at any time, to relocate activities to avoid the expense of the mitigation and/or the delays associated with this process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials may be required. Otherwise, the operator will be responsible for mitigation costs. The AO will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that the required mitigation has been completed the operator will then be allowed to resume construction.

“The holder of this authorization shall immediately bring any paleontological resources or fossils discovered as a result of operations under this authorization to the attention of the authorized officer. The holder shall suspend all activities in the vicinity of such discovery until notified to proceed by the authorized officer. The authorized officer will evaluate, or will have evaluated, such discoveries not later than five (5) working days after being notified, and will determine what action shall be taken with respect to such discoveries. The decision as to the appropriate measures to mitigate adverse effects to significant paleontological resources will be made by the authorized officer after consulting with the holder. The holder may be responsible for the cost of any investigations necessary for the evaluation, and for any mitigative measures.”

13. Lessee's or Operators' Representative & Certification:

Kathy Schneebeck Dulnoan
Regulatory Analyst
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6007

Tommy Thompson
General Manager, Drilling
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720-929-6724)

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Land Management Nationwide Bond WYB000291.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.


Kathy Schneebeck Dulnoan

June 1, 2009
Date

CLASS I REVIEW OF KERR-MCGEE OIL AND GAS
ONSHORE LP'S 43 PROPOSED WELL LOCATIONS
(T10S, R23E, SECTIONS 5, 6, 7, 8, AND 10)
UINTAH COUNTY, UTAH

CLASS I REVIEW OF KERR-MCGEE OIL AND GAS
ONSHORE LP'S 43 PROPOSED WELL LOCATIONS
(T10S, R23E, SECTIONS 5, 6, 7, 8, AND 10)
UINTAH COUNTY, UTAH

By:

Nicole Shelnut

Prepared For:

Bureau of Land Management
Vernal Field Office

Prepared Under Contract With:

Kerr-McGee Oil and Gas Onshore LP
1368 South 1200 East
Vernal, Utah 84078

Prepared By:

Montgomery Archaeological Consultants, Inc.
P.O. Box 219
Moab, Utah 84532

MOAC Report No. 08-331

February 26, 2009

United States Department of Interior (FLPMA)
Permit No. 08-UT-60122

INTRODUCTION

A Class I literature review was completed by Montgomery Archaeological Consultants, Inc. (MOAC) in February 2009 of Kerr-McGee Onshore's 43 proposed well locations in Township 10S, Range 23E. The project area is situated north of the White River and south of the town of Bonanza, Uintah County, Utah. The wells are designated (Bonanza 1023-05F) Directional Pad, Bonanza 1023-05G2AS, Bonanza 1023-05G3BS, Bonanza 1023-05G2CS, Bonanza 1023-05G3CS, (Bonanza 1023-05I) Directional Pad, Bonanza 1023-05IS, (Bonanza 1023-06L) Directional Pad, Bonanza 1023-06M1BS, Bonanza 1023-06N1AS, Bonanza 1023-06N1CS, Bonanza 1023-06N4BS, Bonanza 1023-07JT, FMF #1-7 Directional Pad, Bonanza 1023-07J2AS, Bonanza 1023-07J2DS, (Bonanza 1023-07L) Directional Pad, Bonanza 1023-07L3DS, Bonanza 1023-07M2AS, Bonanza 1023-07N2AS, Bonanza 1023-07N2DS, Bonanza 1023-07P Directional Pad, Bonanza 1023-07O4S, Bonanza 1023-07P2S, Bonanza 1023-08A Directional Pad, Bonanza 1023-08A1DS, Bonanza 1023-08A4BS, Bonanza 1023-08B1AS, Bonanza 1023-08B2AS, (Bonanza 1023-08D) Directional Pad, Bonanza 1023-08C4CS, Bonanza 1023-08D2DS, Bonanza 1023-08D3DS, Bonanza 1023-08F3DS, (Bonanza 1023-08J) Directional Pad, Bonanza 1023-08J1S, Bonanza 1023-08J3, Bonanza 1023-08O2S, Bonanza 1023-08O3S, Bonanza 1023-10A Directional Pad 1023-10A2DS, 1023-10A4BS, 1023-10H1BS, 1023-10H2DS. This document was implemented at the request of Ms. Raleen White, Kerr-McGee Onshore LP, Denver, Colorado.

The purpose of this Class I review is to identify, classify, and evaluate the previously conducted cultural resource inventories and archaeological sites in the project area in order to comply with Section 106 of 36 CFR 800, the National Historic Preservation Act of 1966 (as amended). Also, the inventory was implemented to attain compliance with a number of federal and state mandates, including the National Environmental Policy Act of 1969, the Archaeological and Historic Conservation Act of 1972, the Archaeological Resources Protection Act of 1979, the American Indian Religious Freedom Act of 1978, and the Utah State Antiquities Act of 1973 (amended 1990).

The project area in which Kerr-McGee Onshore's 43 proposed Bonanza well locations occur was previously inventoried by MOAC for two Class III inventories. In 2003, MOAC completed a block inventory of Sections 4, 5, 6, 7, and 8 in Township 10 South, Range 23 East for Westport Oil and Gas Company (Elkins and Montgomery 2003). In 2005, MOAC completed a cultural resource inventory for Westport Oil & Gas Company's eight proposed well locations including Bonanza #1023-10A (Seacat 2005).

A file search was completed by consulting MOAC's Class I existing data review of 459 square miles (293,805 acres) covering the Greater NBU study area between Bonanza and Ouray in Uintah County, northeastern Utah (Patterson et al. 2008). Kerr-McGee Oil & Gas Onshore LP proposes to explore and develop oil and natural gas resources throughout the area. Record searches were performed for this Class I project by Marty Thomas at the Utah State Historic Preservation Office (SHPO) on various dates between June 14, 2006 and January 27, 2007. The results of this Class I data review and Class III inventories indicated that five previously recorded sites (42Un3487, 42Un3490, 42Un3491, 42Un3528, and 42Un3541) occur in the current project area.

DESCRIPTION OF THE PROJECT AREA

The project area is situated north of the White River and south of the town of Bonanza, Uintah County, Utah. The legal description is Township 10S, Range 23E, Sections 5, 6, 7, 8, 10 and 11 (Figure 1, Table 1). Land status is public land administered by the Bureau of Land Management (BLM) Vernal Field Office.

Table 1. Kerr-McGee Onshore's 43 Bonanza Well Locations.

Well Designation	Legal Description	Access/Pipeline Corridor	Cultural Resources
(Bonanza 1023-05F) Directional Pad 1023-05G2AS 1023-05G3BS 1023-05G2CS 1023-05G3CS	SW/NE Sec. 5, T10S, R23	None	42Un3487, 42Un3490, 42Un3491
(Bonanza 1023-05I) Directional Pad 1023-05IS	NE/SE Sec. 5, T10S, R23	None	None
(Bonanza 1023-06L) Directional Pad 1023-06M1BS 1023-06N1AS 1023-06N1CS 1023-06N4BS	NW/SW Sec. 6 T10S, R23	Pipeline: 505 ft	42Un3541
Bonanza 1023-07JT, FMF #1-7 Directional Pad 1023-07J2AS 1023-07J2DS	NW/SE Sec. 7 T10S, R23	Pipeline: 95 ft	None
(Bonanza 1023-07L) Directional Pad 1023-07L3DS 1023-07M2AS 1023-07N2AS 1023-07N2DS	NW/SW Sec. 7 T10S, R23	Pipeline: 1652 ft	None
Bonanza 1023-07P Directional Pad 1023-07O4S 1023-07P2S	SE/SE Sec. 7 T10S, R23	None	42Un3528
Bonanza 1023-08A Directional Pad 1023-08A1DS 1023-08A4BS 1023-08B1AS 1023-08B2AS	NE/NE Sec. 8 T10S, R23	Access: 237 ft Pipeline: 841 ft	None
(Bonanza 1023-08D) Directional Pad 1023-08C4CS 1023-08D2DS 1023-08D3DS 1023-08F3DS	NW/NW Sec. 8 T10S, R23	Access: 379 ft Pipeline: 139 ft	None
(Bonanza 1023-08J) Directional Pad 1023-08J1S 1023-08J3 1023-08O2S 1023-08O3S	NW/SE Sec. 8 T10S, R23	Access: 99 ft Pipeline: 553 ft	None
Bonanza 1023-10A Directional Pad 1023-10A2DS 1023-10A4BS 1023-10H1BS 1023-10H2DS	NE/NE Sec. 10 T10S, R23	Pipeline: 1468 ft	None

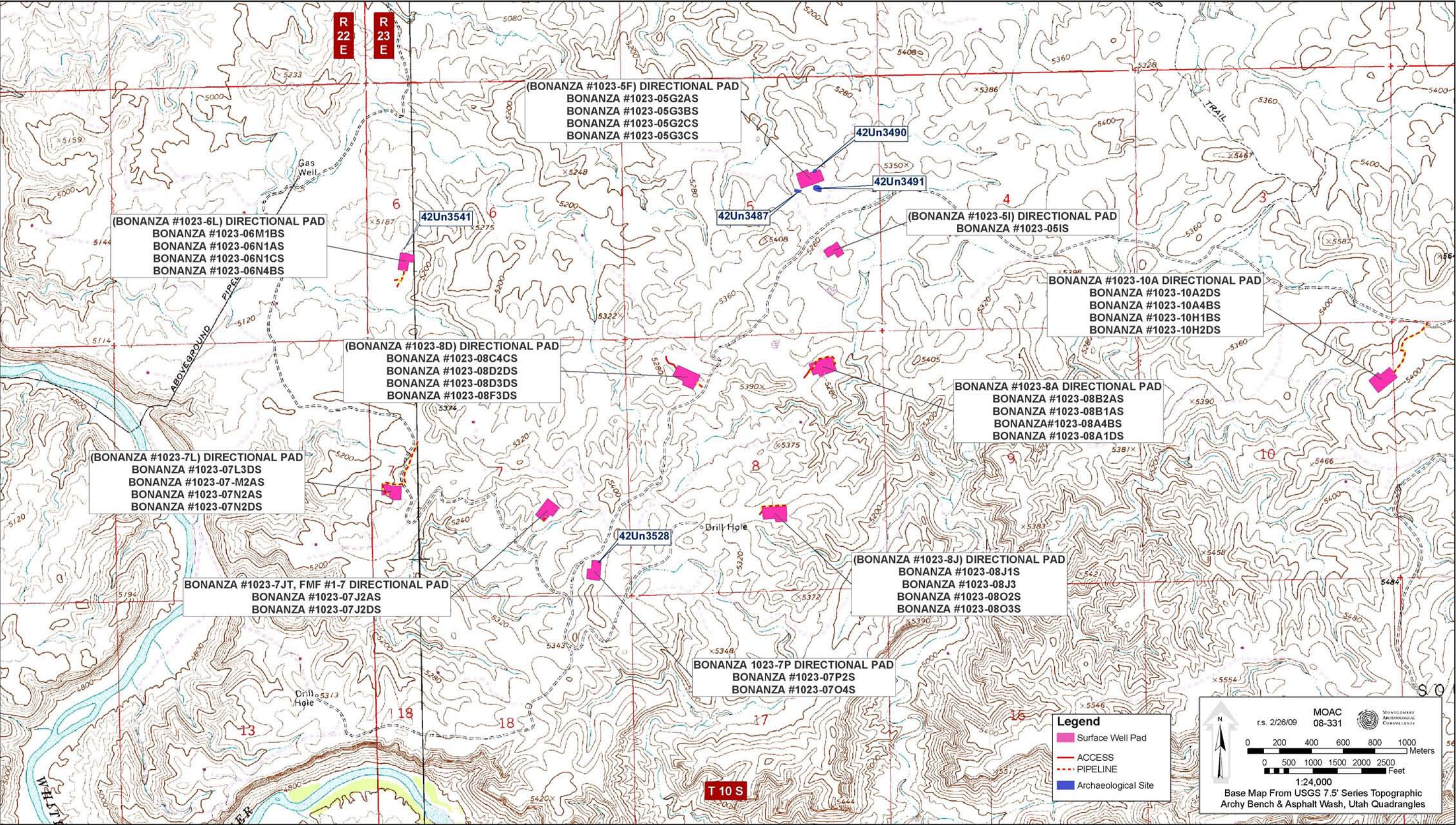


Figure 1. Kerr-McGee Oil and Gas Onshore LP's Proposed Bonanza Well Locations in Uintah County, Utah.

The study area lies within the Uinta Basin physiographic unit, a distinctly bowl-shaped geologic structure (Stokes 1986:231). The Uinta Basin ecosystem is within the Green River drainage, considered to be the northernmost extension of the Colorado Plateau. The geology is comprised of Tertiary age deposits, which include Paleocene age deposits and Eocene age fluvial and lacustrine sedimentary rocks. The Uinta Formation, which is predominate in the project area, occurs as eroded outcrops (formed by fluvial deposited, stream laid interbedded sandstone and mudstone), and is known for its prolific paleontological localities. Specifically, the inventory area is situated east of the White River and southeast of the town of Ouray, Uintah County, Utah. Elevation ranges from 5160 to 5400 ft asl. The project occurs within the Upper Sonoran Desert Shrub Association which includes sagebrush, shadscale, greasewood, mat saltbush, snakeweed, rabbitbrush, and prickly pear cactus. Modern disturbances include livestock grazing, roads, and oil/gas development.

CLASS I RESULTS AND RECOMMENDATIONS

The Class I literature review of Kerr-McGee Onshore's 43 proposed well locations and associated pipeline corridors in Township 10S, Range 23E resulted in the location of five previously documented sites (42Un3487, 42Un3490, 42Un3491, 42Un3528, and 42Un3541). One site (42Un3487) consists of two historic inscriptions, three sites (42Un3490, 42Un3491, and 42Un3528) are historic trash scatters, and one site 42Un3541 is a historic rock cairn; all of these sites are evaluated not eligible to the NRHP. Based on the findings, a determination of "no adverse impact" is recommended for the undertaking pursuant to Section 106, CFR 800.

REFERENCES CITED

- Elkins, M and K. Montgomery
2003 Cultural Resource Block Inventory of Sections 4, 5, 6, 7, and 8, Township 10 South, Range 23 East for Westport Oil & Gas Company, Uintah County, Utah. Montgomery Archaeological Consultants, Moab, Utah. Report No. U-03-MQ-0882.
- Patterson, J. J., J. Fritz, K. Lower-Eskelson, R. Stash and A. Thomas
2008 NBU Class I Existing Data Review for Kerr-McGee Oil & Gas Onshore LP, Uintah County, Utah. Montgomery Archaeological Consultants, Moab, Utah.
- Seacat, T. B.
2005 Cultural Resource Inventory of Westport Oil & Gas Company's Proposed Bonanza #1023-10A, C, E, F, G, J, O, P Well Locations in Section 10, T10S R23E, Uintah County, Utah. Montgomery Archaeological Consultants, Moab, Utah. Report No. U-05-MQ-0351.
- Stokes, W. L.
1986 *Geology of Utah*. Utah Museum of Natural History and Utah Geological and Mineral Survey, Salt Lake City.

IPC #09-32

Paleontological Reconnaissance Survey Report

**Survey of Kerr McGee's Proposed Multi-Well Pads, Access Roads,
and Pipeline Upgrades for "NBU #1022-12P, #1022-24N2,
Bonanza #1023-06M1BS, N1AS, N1CS, & N4BS,
#1023-07P2S & O4S, & #1023-07J2AS
& J2DS" (Sec. 12, T 10 S, R 22 E)
& (Sec. 6 & 7, T 10 S, R 23 E)**

**Archy Bench & Asphalt Wash
Topographic Quadrangles
Uintah County, Utah**

March 25, 2009

Prepared by Stephen D. Sandau
Paleontologist for
Intermountain Paleo-Consulting
P. O. Box 1125
Vernal, Utah 84078

INTRODUCTION

At the request of Raleen White of Kerr McGee Onshore LP and authorized by the BLM Vernal Field Office and James Kirkland of the Office of the State Paleontologist, a paleontological reconnaissance survey of Kerr McGee's proposed multi-well pads, access roads, and pipeline upgrades for "NBU #1022-12P, #1022-24N2, Bonanza #1023-06M1BS, N1AS, N1CS, & N4BS, #1023-07P2S & O4S, #1023-07J2AS & J2DS" (Sec. 12, T 10 S, R 22 E) & (Sec. 6 & 7, T 10 S, R 23 E) was conducted by Simon Masters, Jason Klimek, and Amanda Dopheide on February 24 and 27, 2009. The reconnaissance survey was conducted under the Utah BLM Paleontological Resources Use Permit #UT08-006C and Utah Paleontological Investigations Permit #07-356. This survey to locate, identify and evaluate paleontological resources was done to meet requirements of the National Environmental Policy Act of 1969 and other State and Federal laws and regulations that protect paleontological resources.

FEDERAL AND STATE REQUIREMENTS

As mandated by the Federal and State government, paleontologically sensitive geologic formations on State lands that are considered for exchange or may be impacted due to ground disturbance require paleontological evaluation. This requirement complies with:

- 1) The National Environmental Policy Act of 1969 (NEPA) (42 U.S.C. 4321.et. Seq., P.L. 91-190);
- 2) The Federal Land Policy and Management Act (FLPMA) of 1976 (90 Stat. 2743, 43 U.S.C. § 1701-1785, et. Seq., P.L. 94-579);
- 3) The National Historic Preservation Act. 16 U.S.C. § 470-1, P.L. 102-575 in conjunction with 42 U.S.C. § 5320; and
- 4) The Utah Geological Survey. S. C. A.: 63-73-1. (1-21) and U.C.A.: 53B-17-603

BLM, 2008: BLM IM 2009-011 Assessment and Mitigation of Potential Impacts to Paleontological Resources. USDI – BLM Washington Office directive, October 29, 2008 replaces the Condition Classification System from Handbook H-8270-1. The following section outlines the new Potential Fossil Yield Classification (PFYC) System. Geologic units are classified based on the relative abundance of vertebrate fossils or scientifically significant invertebrate or plant fossils and their sensitivity to adverse impacts, with a higher class number indicating a higher potential.

- **Class 1 – Very Low.** Geologic units (igneous, metamorphic, or Precambrian) not likely to contain recognizable fossil remains.
- **Class 2 – Low.** Sedimentary geologic units not likely to contain vertebrate fossils or scientifically significant non-vertebrate fossils. (Including modern eolian, fluvial, and colluvial deposits etc...)
- **Class 3 – Moderate or Unknown.** Fossiliferous sedimentary geologic units where fossil content varies in significance, abundance, and predictable occurrence; or sedimentary units of unknown fossil potential.

- **Class 3a – Moderate Potential.** The potential for a project to be sited on or impact a significant fossil locality is low, but is somewhat higher for common fossils.
- **Class 3b – Unknown Potential.** Units exhibit geologic features and preservational conditions that suggest significant fossils could be present, but little information about the paleontological resources of the unit or the area is known.
- **Class 4 – High.** Geologic units containing a high occurrence of vertebrate fossils or scientifically significant invertebrate or plant fossils, but may vary in abundance and predictability.
 - **Class 4a** – Outcrop areas with high potential are extensive (greater than two acres) and paleontological resources may be susceptible to adverse impacts from surface disturbing actions.
 - **Class 4b** – Areas underlain by geologic units with high potential but have lowered risks of disturbance due to moderating circumstances such as a protective layer of soil or alluvial material; or outcrop areas are smaller than two contiguous acres.
- **Class 5 – Very High.** Highly fossiliferous geologic units that consistently and predictably produce vertebrate fossils or scientifically significant invertebrate or plant fossils.
 - **Class 5a** - Outcrop areas with very high potential are extensive (greater than two acres) and paleontological resources may be susceptible to adverse impacts from surface disturbing actions.
 - **Class 5b** - Areas underlain by geologic units with very high potential but have lowered risks of disturbance due to moderating circumstances such as a protective layer of soil or alluvial material; or outcrop areas are smaller than two contiguous acres.

It should be noted that many fossils, though common and unimpressive in and of themselves, can be important paleo-environmental, depositional, and chronostratigraphic indicators.

LOCATION

Kerr McGee's proposed multi-well pads, access roads, and pipeline upgrades for "NBU #1022-12P, #1022-24N2, Bonanza #1023-06M1BS, N1AS, N1CS, & N4BS, #1023-07P2S & O4S, #1023-07J2AS & J2DS" (Sec. 12, T 10 S, R 22 E) & (Sec. 6 & 7, T 10 S, R 23 E) are on lands managed by the BLM and the State of Utah Trust Lands Administration (SITLA), about 1-1.5 miles east and 1-2 miles north of the White River in the Saddletree Draw and Asphalt Wash area and about 12-15 miles northeast of Bonanza, Utah. The project area can be found on the Archy Bench and Asphalt Wash 7.5 minute U. S. Geological Survey Quadrangle Map, Uintah County, Utah.

PREVIOUS WORK

The basins of western North America have long produced some of the richest fossil collections in the world. Early Cenozoic sediments are especially well represented throughout the western interior. Paleontologists started field work in Utah's Uinta Basin as early as 1870 (Betts, 1871; Marsh, 1871, 1875a, 1875b). The Uinta Basin is located in the northeastern corner of Utah and covers approximately 31,000 sq. km (12,000 sq. miles) ranging in elevation from 1,465 to 2,130 m (4,800 to 7,000 ft) (Marsell, 1964; Hamblin et al., 1987). Middle to late Eocene time marked a period of dramatic change in the climate, flora, (Stucky, 1992) and fauna (Black and Dawson, 1966) of North America.

GEOLOGICAL AND PALEONTOLOGICAL OVERVIEW

Early in the geologic history of Utah, some 1,000 to 600 Ma, an east-west trending basin developed creating accommodation for 25,000 feet of siliclastics. Uplift of that filled-basin during the early Cenozoic formed the Uinta Mountains (Rasmussen et al., 1999). With the rise of the Uinta Mountains the asymmetrical synclinal Uinta Basin is thought to have formed through the effects of down warping in connection with the uplift. Throughout the Paleozoic and Mesozoic deposition fluctuated between marine and non-marine environments laying down a thick succession of sediments in the area now occupied by the Uinta Basin. Portions of these beds crop out on the margins of the basin due to tectonic events during the late Mesozoic.

Early Tertiary Uinta Basin sediments were deposited in alternating lacustrine and fluvial environments. Large shallow lakes periodically covered most of the basin and surrounding areas during early to mid Eocene time (Abbott, 1957). These lacustrine sediments show up in the western part of the basin, dipping 2-3 degrees to the northeast and are lost in the subsurface on the east side. The increase of cross-bedded, coarse-grained sandstone and conglomerates preserved in paleo-channels indicates a transition to a fluvial environment toward the end of the epoch.

Four Eocene formations are recognized in the Uinta Basin: the Wasatch, Green River, Uinta and Duchesne River, respectively (Wood, 1941). The Uinta Formation is subdivided into two lithostratigraphic units namely: the Wagonhound Member (Wood, 1934), formerly known as Uinta A and B (Osborn, 1895, 1929) and the Myton Member previously regarded as the Uinta C.

Within the Uinta Basin in northeast Utah, the Uinta Formation in the western part of the basin is composed primarily of lacustrine sediments inter-fingering with over-bank deposits of silt and mudstone and westward flowing channel sands and fluvial clays, muds, and sands in the east (Bryant et al, 1990; Ryder et al, 1976). Stratigraphic work done by early geologists and paleontologists within the Uinta Formation focused on the definition of rock units and attempted to define a distinction between early and late Uintan faunas (Riggs, 1912; Peterson and Kay, 1931; Kay 1934). More recent work focused on magnetostratigraphy, radioscopic chronology and continental biostratigraphy (Flynn, 1986; Prothero, 1996). Well-known for its fossiliferous nature and distinctive mammalian fauna of mid-Eocene Age, the Uinta Formation is the type formation for the Uintan Land Mammal Age (Wood et al, 1941).

The Duchesne River Formation of the Uinta Basin in northeastern Utah is composed of a succession of fluvial and flood plain deposits composed of mud, silt and sandstone. The source area for these late Eocene deposits is from the Uinta Mountains indicated by paleocurrent data (Anderson and Picard, 1972). In Peterson's (1931c) paper, the name "Duchesne Formation" was applied to the formation and it was later changed to the "Duchesne River Formation" by Kay (1934). The formation is divided up into four members: the Brennan Basin, Dry Gulch Creek, LaPoint and Starr Flat (Anderson and Picard, 1972). Debates concerning the Duchesne River Formation, as to whether its age was late Eocene or early Oligocene, have surfaced throughout the literature of the last century (Wood et al., 1941; Scott 1945). Recent paleo-magnetostratigraphic work (Prothero, 1996) shows that the Duchesne River Formation is late Eocene in time.

FIELD METHODS

In order to determine if the proposed project area contained any paleontological resources, a reconnaissance survey was performed. An on-site observation of the proposed areas undergoing surficial disturbance is necessary because judgments made from topographic maps alone are often unreliable. Areas of low relief have potential to be erosional surfaces with the possibility of bearing fossil materials rather than surfaces covered by unconsolidated sediment or soils.

When found within the proposed construction areas, outcrops and erosional surfaces were checked to determine if fossils were present and to assess needs. Careful effort is made during surveys to identify and evaluate significant fossil materials or fossil horizons when they are found. Microvertebrates, although rare, are occasionally found in anthills or upon erosional surfaces and are of particular importance.

PROJECT AREA

The project area is situated in the Wagonhound Member (Uinta B) of the Uinta Formation. The following list provides a description of the individual wells and their associated pipelines and access roads.

Multi-well pad NBU #1022-12P

The proposed well is located in the SE/SE quarter-quarter section of Sec. 12, T 10 S, R 22 E, and is approached from the east by an existing access road and pipeline (Figure 1). The wells are staked on an existing pad. The geology of the proposed area consists of thin colluvium and small sharp fragments of hard resistant siltstone underlain by a thick paleochannel of tan, fluvial sandstone that is exposed to the west end of the pad. No fossils were discovered.

Multi-well pad NBU #1022-24N2

The proposed well is located in the SW/SE quarter-quarter section of Sec. 12, T 10 S, R 22 E, and is approached from the east by an existing access road and pipeline (Figure 1). The wells are staked on gently sloping ground on the top of a prominent ridge. The northeast corner of the pad

is staked on a reclaimed well pad. The pit of the proposed pad is staked in the southeast corner of the pad. The geology of the proposed area consists of thin colluvium and small, angular fragments of resistant siltstone underlain by a thick paleochannel of tan, fluvial sandstone with fragments of green mudstone evident within the disturbed material of the reclaimed pad. No fossils were discovered.

Bonanza #1023-06M1BS, N1AS, N1CS, & N4BS

The proposed well is situated in the NW/SW quarter-quarter section of Sec. 6, T 10 S, R 23 E, and is approached from the south by an existing access road and pipeline. The wells are staked on the existing pad "Bonanza #1023-6L" (Figure 1). The geology of the proposed project area consists of alternating beds of gray mudstone, maroon siltstone, and gray siltstone exhibiting desert varnish. Scattered fragments of turtle (*Echmatemys* sp.) were discovered along the side and base of the hill at the north end of the pad. Ichnofossils consisting of prominent burrows within weathered fragments of gray siltstone were also seen in the project area.

Bonanza #1023-07P2S & O4S

The proposed well is situated in the SE/SE quarter-quarter section of Sec. 7, T 10 S, R 23 E, and is approached from the north by an existing access road and pipeline (Figure 1). The wells are staked on an existing pad. The geology of the proposed project area consists of thin colluvium and small angular fragments of hard resistant siltstone underlain by a thick paleochannel of tan fluvial sandstone. No fossils were discovered.

Bonanza #1023-07J2AS & J2DS

The proposed pipeline begins in the NE/SE quarter-quarter section and travels approximately 1,000 feet east where it ties-in to the proposed multi-well pad in the NW/ SE quarter-quarter section of Sec. 7 (Figure 1). The project area is staked on relatively flat ground covered by tan colluvium, gravel to cobble sized pieces of purple and orange, medium-grained sandstone, gravel sized pieces of purple siltstone, and previously disturbed soil. An about 1 foot thick outcrop of laminated, tan, medium-grained sandstone was observed approximately 8 feet west of the pad. Another approximately 3 foot thick outcrop of laminated sandstone is situated roughly 6 feet. No fossils were found.

SURVEY RESULTS

PROJECT	GEOLOGY	PALEONTOLOGY
"Multi-well pad NBU #1022-12P" (Sec. 12, T 10 S, R 22 E)	The wells are staked on an existing pad. The geology of the proposed area consists of thin colluvium and small sharp fragments of hard resistant siltstone underlain by a thick paleochannel of tan, fluvial sandstone that is exposed to the west end of the pad.	No fossils were discovered. Class 3a

<p>“Multi-well pad NBU #1022-24N2” (Sec. 12, T 10 S, R 22 E)</p>	<p>The wells are staked on gently sloping ground on the top of a prominent ridge. The northeast corner of the pad is staked on a reclaimed well pad. The pit of the proposed pad is staked in the southeast corner of the pad. The geology of the proposed area consists of thin colluvium and small, angular fragments of resistant siltstone underlain by a thick paleochannel of tan, fluvial sandstone with fragments of green mudstone evident within the disturbed material of the reclaimed pad.</p>	<p>No fossils were discovered. Class 3a</p>
<p>“Bonanza #1023-06M1BS, N1AS, N1CS, & N4BS” (Sec. 6, T 10 S, R 23 E)</p>	<p>The geology of the proposed project area consists of alternating beds of gray mudstone, maroon siltstone, and gray siltstone exhibiting desert varnish.</p>	<p>Scattered fragments of turtle (<i>Echmatemys</i> sp.) were discovered along the side and base of the hill at the north end of the pad. Ichnofossils consisting of prominent burrows within weathered fragments of gray siltstone were also seen in the project area. Class 3a</p>
<p>“Bonanza #1023-07P2S & O4S” (Sec. 7, T 10 S, R 23 E)</p>	<p>The geology of the proposed project area consists of thin colluvium and small angular fragments of hard resistant siltstone underlain by a thick paleochannel of tan fluvial sandstone.</p>	<p>No fossils were discovered. Class 3a</p>
<p>“Bonanza #1023-07J2AS & J2DS” (Sec. 7, T 10 S, R 23 E)</p>	<p>The project area is staked on relatively flat ground covered by tan colluvium, gravel to cobble sized pieces of purple and orange, medium-grained sandstone, gravel sized pieces of purple siltstone, and previously disturbed soil. An about 1 foot thick outcrop of laminated, tan, medium-grained sandstone was observed approximately 8 feet west of the pad. Another approximately 3 foot thick outcrop of laminated sandstone is situated roughly 6 feet.</p>	<p>No fossils were discovered. Class 3a</p>

RECOMMENDATIONS

A reconnaissance survey was conducted for Kerr McGee's proposed multi-well pads, access roads, and pipeline upgrades for "NBU #1022-12P, #1022-24N2, Bonanza #1023-06M1BS, N1AS, N1CS, & N4BS, #1023-07P2S & O4S, #1023-07J2AS & J2DS" (Sec. 12, T 10 S, R 22 E) & (Sec. 6 & 7, T 10 S, R 23 E). The well pads, well pad expansions, and the associated access roads and pipelines covered in this report showed little to no signs of vertebrate fossils. Therefore, we recommend that no paleontological restrictions should be placed on the development of the projects included in this report.

Buried pipeline will encounter Uinta formational sediments along most of the staked pipeline corridors yet indications from surface fossils predict that little if any vertebrate fossils will be disturbed.

Nevertheless, if any vertebrate fossil(s) are found during construction within the project area, Operator (Lease Holder) will report all occurrences of paleontological resources discovered to a geologist with the Vernal Field Office of the BLM and the Office of the State Paleontologist. The operator is responsible for informing all persons in the areas who are associated with this project of the requirements for protecting paleontological resources. Paleontological resources found on the public lands are recognized by the BLM and State as constituting a fragile and nonrenewable scientific record of the history of life on earth, and so represent an important and critical component of America's natural heritage. These resources are afforded protection under 43 CFR 3802 and 3809, and penalties possible for the collection of vertebrate fossils are under 43 CFR 8365.1-5.

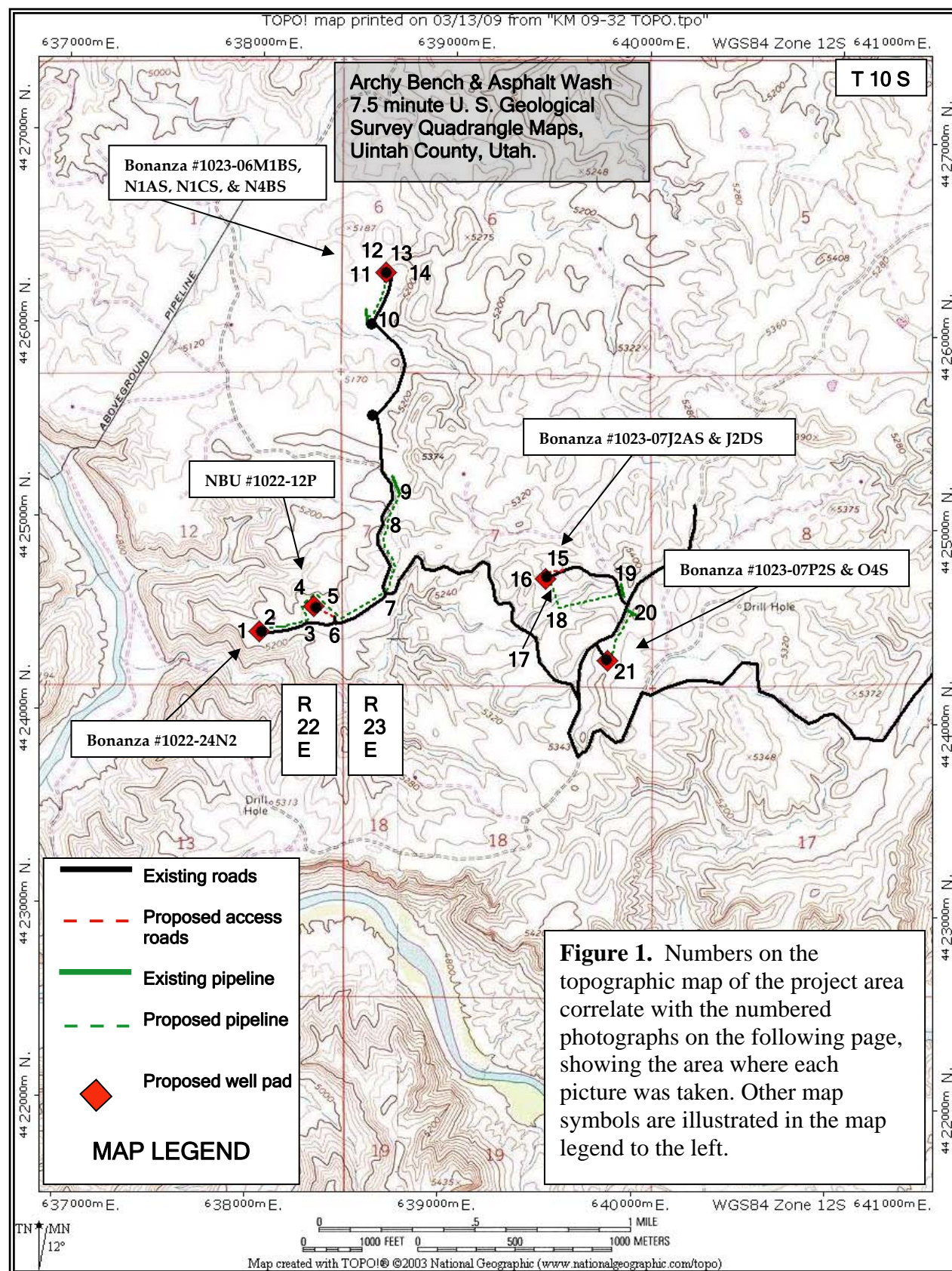


Figure 1. *continued...*

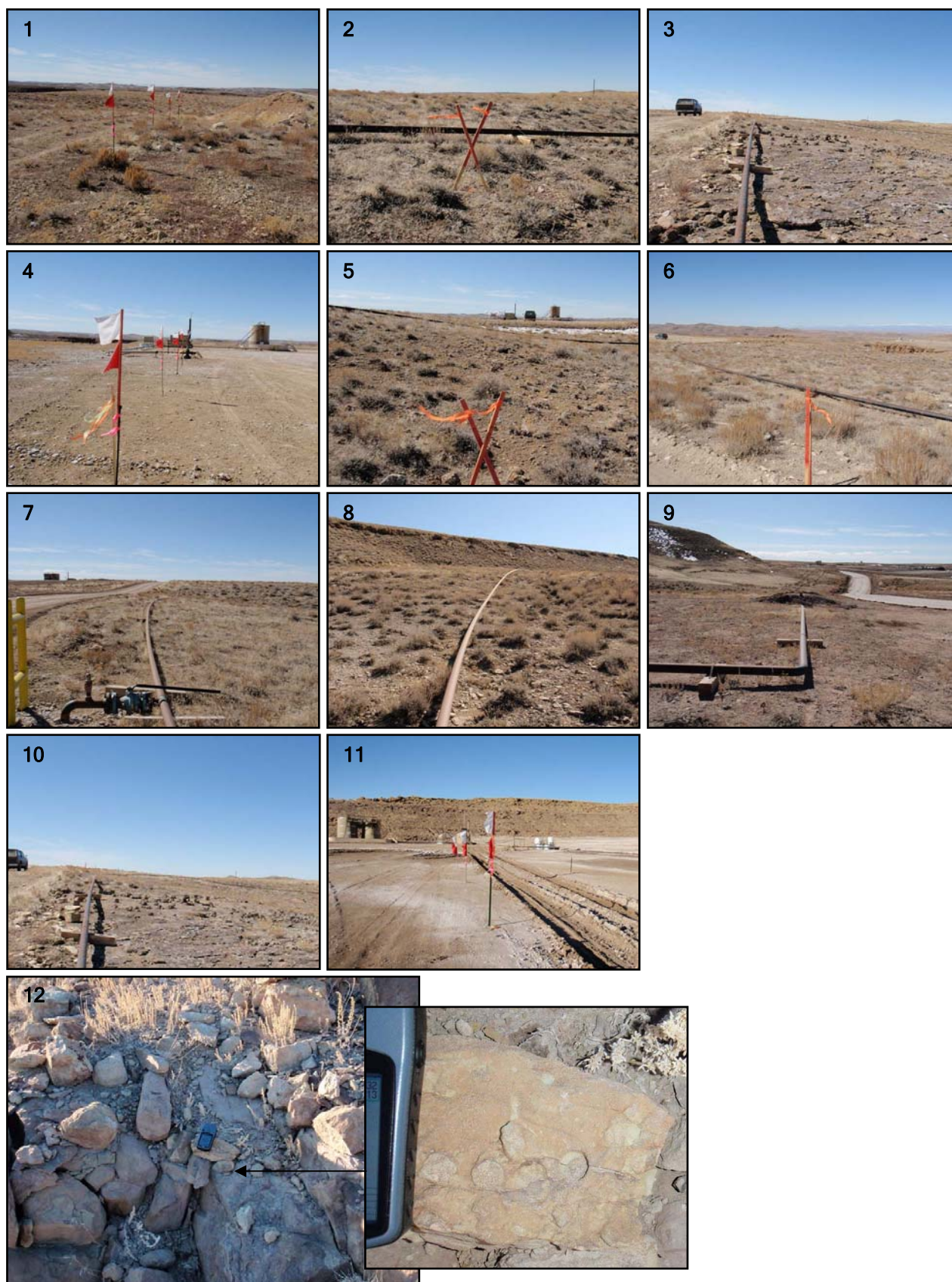
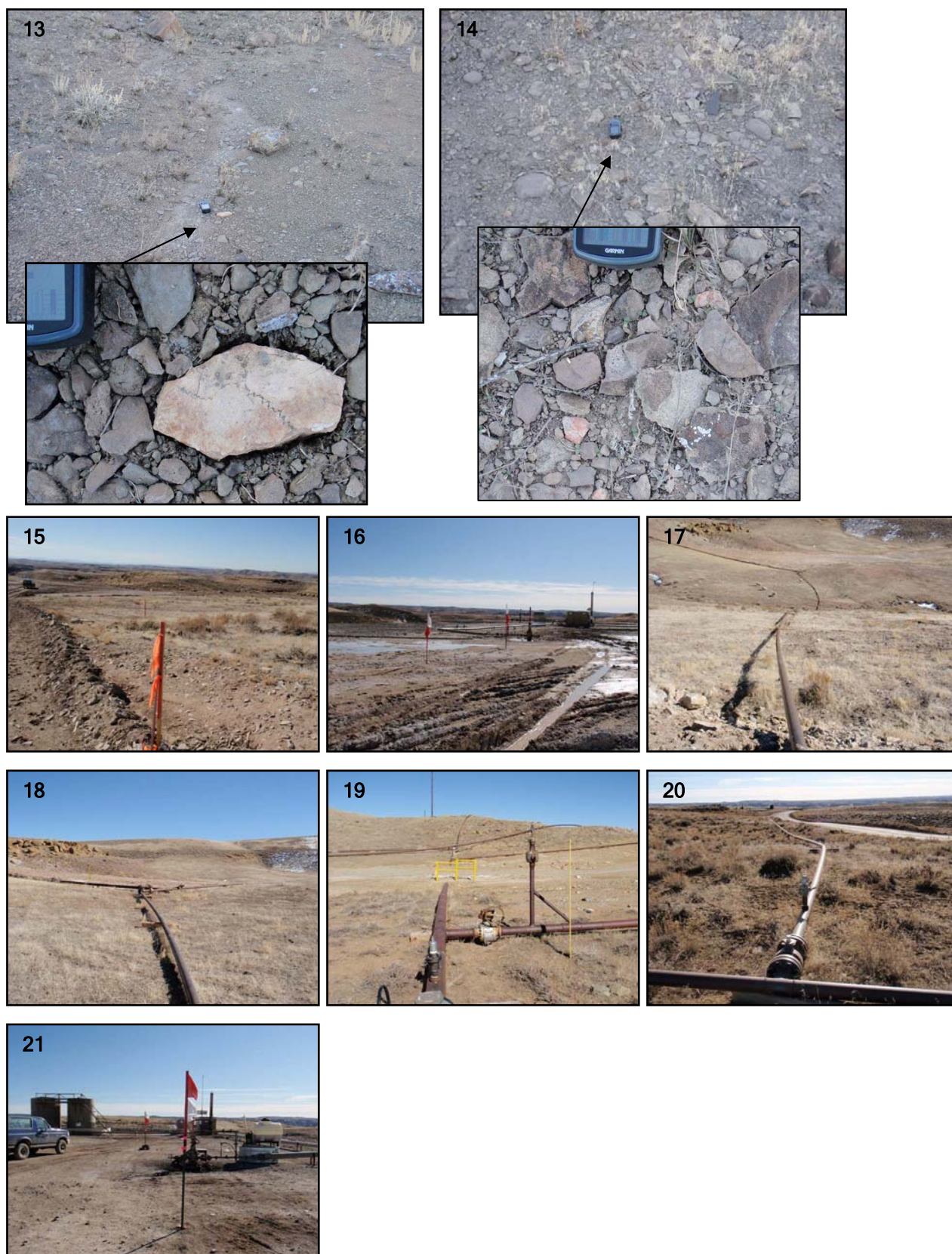


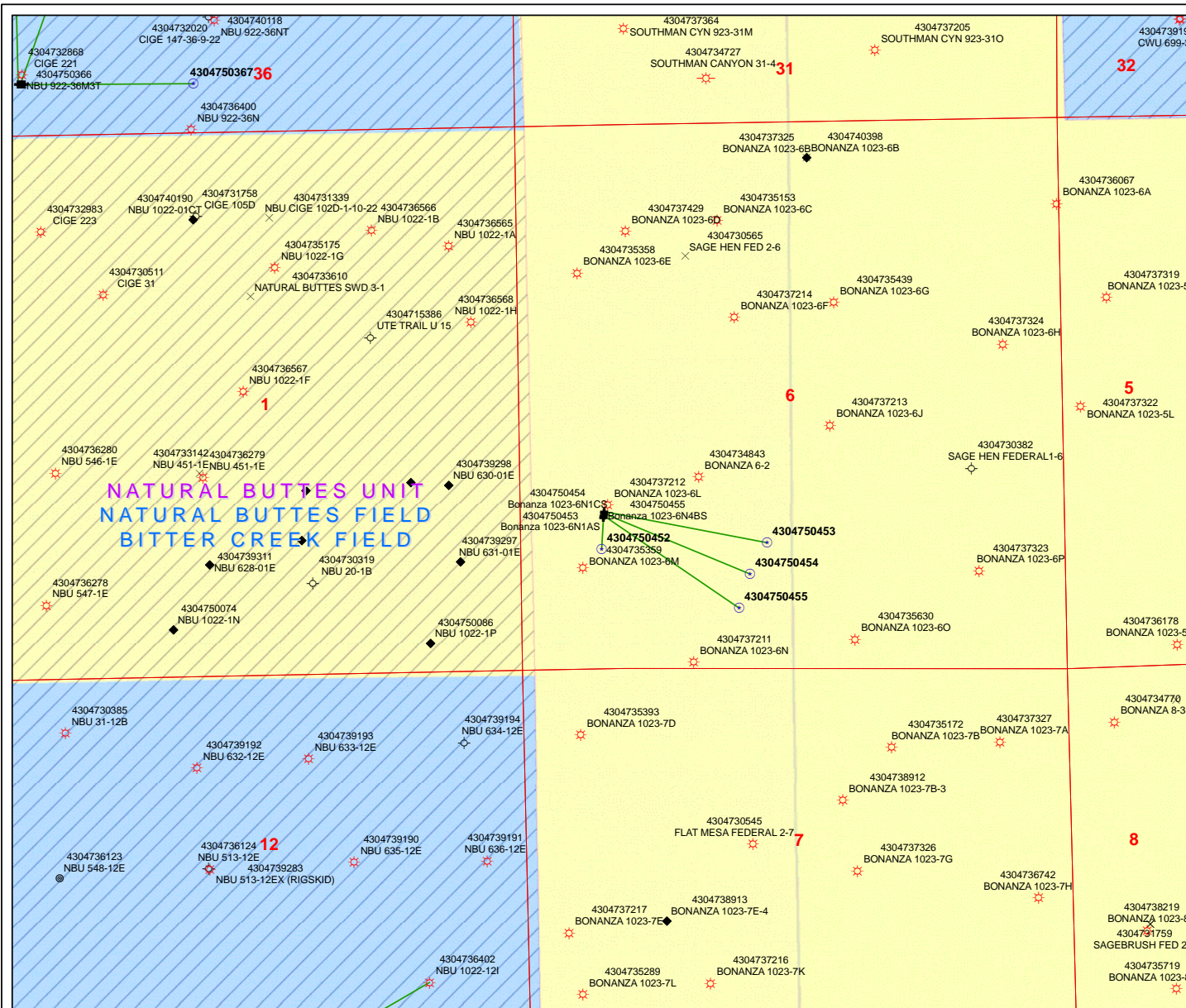
Figure 1. *continued...*



REFERENCES CITED

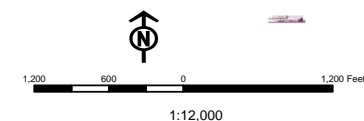
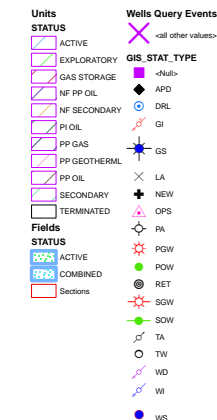
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API Number: 4304750454
Well Name: Bonanza 1023-6N1CS
Township 10.0 S Range 23.0 E Section 6
Meridian: SLBM
Operator: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Map Prepared:
 Map Produced by Diana Mason



WORKSHEET

APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 6/1/2009

API NO. ASSIGNED: 43047504540000

WELL NAME: Bonanza 1023-6N1CS

OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995)

PHONE NUMBER: 720 929-6156

CONTACT: Danielle Piernot

PROPOSED LOCATION: NWSW 6 100S 230E

Permit Tech Review: ☒

SURFACE: 1550 FSL 0739 FWL

Engineering Review: ☒

BOTTOM: 0955 FSL 2145 FWL

Geology Review: ☒

COUNTY: UINTAH

LATITUDE: 39.97498

LONGITUDE: -109.37564

UTM SURF EASTINGS: 638713.00

NORTHINGS: 4426033.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU 38419

PROPOSED PRODUCING FORMATION(S): WASATCH-MESA VERDE

SURFACE OWNER: 1 - Federal

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

- ☒ **PLAT**
- ☒ **Bond:** FEDERAL - WYB000291
- ☐ **Potash**
- ☐ **Oil Shale 190-5**
- ☐ **Oil Shale 190-3**
- ☐ **Oil Shale 190-13**
- ☒ **Water Permit:** Permit #43-8496
- ☐ **RDCC Review:**
- ☐ **Fee Surface Agreement**
- ☒ **Intent to Commingle**

Commingle Approved

LOCATION AND SITING:

- ☐ **R649-2-3.**
- Unit:**
- ☐ **R649-3-2. General**
- ☐ **R649-3-3. Exception**
- ☒ **Drilling Unit**
- Board Cause No:** Cause 179-14
- Effective Date:** 6/12/2008
- Siting:** 460' fr ext. drilling unit boundary
- ☒ **R649-3-11. Directional Drill**

Comments: Presite Completed

Stipulations: 3 - Commingle - ddoucet
4 - Federal Approval - dmason
15 - Directional - dmason



JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: Bonanza 1023-6N1CS
API Well Number: 43047504540000
Lease Number: UTU 38419
Surface Owner: FEDERAL
Approval Date: 6/18/2009

Issued to:

KERR-MCGEE OIL & GAS ONSHORE, L.P., P.O. Box 173779, Denver, CO 80217

Authority:

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 179-14. The expected producing formation or pool is the WASATCH-MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Commingling:

In accordance with Board Cause No. 179-14, completion into and commingling of production from the Wasatch and Mesaverde formations is allowed.

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Notification Requirements:

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

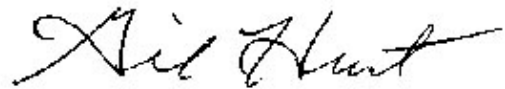
Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dustin Doucet at (801) 538-5281 office (801) 733-0983 home

Reporting Requirements:

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

Approved By:

A handwritten signature in black ink, appearing to read "Gil Hunt", with a stylized, cursive script.

Gil Hunt
Associate Director, Oil & Gas

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: KERR-McGEE OIL & GAS ONSHORE, L.P.

Well Name: BONANZA 1023-6N1CS

Api No: 43-047-50454 Lease Type: FEDERAL

Section 06 Township 10S Range 23E County UINTAH

Drilling Contractor PETE MARTIN DRLG RIG # BUCKET

SPUDDED:

Date 04/07/2010

Time 8:00 AM

How DRY

Drilling will Commence: _____

Reported by JAMES GOBER

Telephone # (435) 828-7024

Date 04/07/2010 Signed CHD

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: KERR McGEE OIL & GAS ONSHORE LP Operator Account Number: N 2995
Address: P.O. Box 173779
city DENVER
state CO zip 80217 Phone Number: (720) 929-6100

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304750454	BONANZA 1023-6N1CS		NWSW	6	10S	23E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
<i>A</i>	99999	<i>17580</i>	4/7/2010		<i>4/28/10</i>		
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSTMVD</i> SPUD WELL LOCATION ON 4/7/2010 AT 8:00 HRS. <i>BHL=SESW —</i>							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304750453	BONANZA 1023-6N1AS		NWSW	6	10S	23E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
<i>A</i>	99999	<i>17581</i>	4/7/2010		<i>4/28/10</i>		
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSTMVD</i> SPUD WELL LOCATION ON 4/7/2010 AT 11:00 HRS. <i>BHL=SESW —</i>							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
Comments:							

ACTION CODES:

- A** - Establish new entity for new well (single well only)
- B** - Add new well to existing entity (group or unit well)
- C** - Re-assign well from one existing entity to another existing entity
- D** - Re-assign well from one existing entity to a new entity
- E** - Other (Explain in 'comments' section)

RECEIVED

APR 08 2010

ANDY LYTLE

Name (Please Print)

Signature

REGULATORY ANALYST

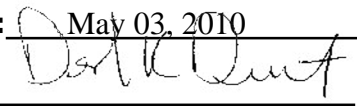
Title

4/8/2010

Date

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 38419
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: Bonanza 1023-6N1CS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1550 FSL 0739 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 6 Township: 10.0S Range: 23.0E Meridian: S		9. API NUMBER: 43047504540000
PHONE NUMBER: 720 929-6007 Ext		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 4/7/2010	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER:	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" SCHEDULE 10 PIPE. CMT W/28 SX READY MIX. SPUD WELL LOCATION ON 4/7/2010 AT 8:00 HRS.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY April 08, 2010		
NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 4/8/2010	

<div>STATE OF UTAH</div> <div>DEPARTMENT OF NATURAL RESOURCES</div> <div>DIVISION OF OIL, GAS, AND MINING</div>		<div>FORM 9</div> <div>5.LEASE DESIGNATION AND SERIAL NUMBER: UTU 38419</div>	
<div>SUNDRY NOTICES AND REPORTS ON WELLS</div> <div>Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.</div>		<div>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</div> <div>7.UNIT or CA AGREEMENT NAME:</div>	
<div>1. TYPE OF WELL</div> <div>Gas Well</div>		<div>8. WELL NAME and NUMBER:</div> <div>Bonanza 1023-6N1CS</div>	
<div>2. NAME OF OPERATOR:</div> <div>KERR-MCGEE OIL & GAS ONSHORE, L.P.</div>		<div>9. API NUMBER:</div> <div>43047504540000</div>	
<div>3. ADDRESS OF OPERATOR:</div> <div>P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779</div>		<div>PHONE NUMBER:</div> <div>720 929-6007 Ext</div>	<div>9. FIELD and POOL or WILDCAT:</div> <div>NATURAL BUTTES</div>
<div>4. LOCATION OF WELL</div> <div>FOOTAGES AT SURFACE:</div> <div>1550 FSL 0739 FWL</div> <div>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</div> <div>Qtr/Qtr: NWSW Section: 6 Township: 10.0S Range: 23.0E Meridian: S</div>		<div>COUNTY:</div> <div>UINTAH</div>	
		<div>STATE:</div> <div>UTAH</div>	
<div>11.</div> <div>CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</div>			
<div>TYPE OF SUBMISSION</div>		<div>TYPE OF ACTION</div>	
<div><input type="checkbox"/> NOTICE OF INTENT</div> <div>Approximate date work will start:</div> <div><input type="checkbox"/> SUBSEQUENT REPORT</div> <div>Date of Work Completion:</div> <div><input type="checkbox"/> SPUD REPORT</div> <div>Date of Spud:</div> <div><input checked="" type="checkbox"/> DRILLING REPORT</div> <div>Report Date:</div> <div>4/14/2010</div>		<div><input type="checkbox"/> ACIDIZE</div> <div><input type="checkbox"/> CHANGE TO PREVIOUS PLANS</div> <div><input type="checkbox"/> CHANGE WELL STATUS</div> <div><input type="checkbox"/> DEEPEN</div> <div><input type="checkbox"/> OPERATOR CHANGE</div> <div><input type="checkbox"/> PRODUCTION START OR RESUME</div> <div><input type="checkbox"/> REPERFORATE CURRENT FORMATION</div> <div><input type="checkbox"/> TUBING REPAIR</div> <div><input type="checkbox"/> WATER SHUTOFF</div> <div><input type="checkbox"/> WILDCAT WELL DETERMINATION</div> <div><input type="checkbox"/> ALTER CASING</div> <div><input type="checkbox"/> CHANGE TUBING</div> <div><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS</div> <div><input type="checkbox"/> FRACTURE TREAT</div> <div><input type="checkbox"/> PLUG AND ABANDON</div> <div><input type="checkbox"/> RECLAMATION OF WELL SITE</div> <div><input type="checkbox"/> SIDETRACK TO REPAIR WELL</div> <div><input type="checkbox"/> VENT OR FLARE</div> <div><input type="checkbox"/> SI TA STATUS EXTENSION</div> <div><input type="checkbox"/> OTHER</div> <div><input type="checkbox"/> CASING REPAIR</div> <div><input type="checkbox"/> CHANGE WELL NAME</div> <div><input type="checkbox"/> CONVERT WELL TYPE</div> <div><input type="checkbox"/> NEW CONSTRUCTION</div> <div><input type="checkbox"/> PLUG BACK</div> <div><input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION</div> <div><input type="checkbox"/> TEMPORARY ABANDON</div> <div><input type="checkbox"/> WATER DISPOSAL</div> <div><input type="checkbox"/> APD EXTENSION</div> <div>OTHER: </div>	
<div>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</div> <div>MIRU CAPSTAR 310 RIG ON 4/11/2010. DRILLED 11" SURFACE HOLE TO 1941'. RAN 8-5/8" 28# IJ55 SURFACE CSG. PUMP 110 BBLS OF WATER AHEAD, PUMP 20 BBLS OF GEL WATER. LEAD CMT W/100 SX OF CLASS G H FILL CMT @ 11.0 PPG, 3.52 YD. TAILED CMT W/225 SX OF CLASS G PREM LITE CMT @ 15.8 PPG, 1.15 YD. DROP PLUG ON FLY, DISPLACE W/156.5 BBLS OF WATER, 250 PSI OF LIFT @ 2 BBLS/MIN RATE. 1 BBLS OF LEAD TO SURFACE. BUMP PLUG W/800 PSI. FLOAT HELD. CEMENT FELL. PUMP 100 SX OF CLASS G PREM LITE TOP OUT CMT @ 15.8 PPG, 1.15 YD DOWN BACK SIDE. NO CEMENT TO SURFACE. WAIT TILL NEXT JOB TO TOP OUT. WORT.</div>			
<div>NAME (PLEASE PRINT)</div> <div>Andy Lytle</div>		<div>PHONE NUMBER</div> <div>720 929-6100</div>	<div>TITLE</div> <div>Regulatory Analyst</div>
<div>SIGNATURE</div> <div>N/A</div>		<div>DATE</div> <div>4/14/2010</div>	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9			
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Kerr-McGee Oil & Gas Onshore LP (Kerr-McGee) respectfully requests to change the surface casing size for this well from FROM: 9-5/8" TO: 8-5/8". Additionally, Kerr-McGee requests to change the cement program for this well due to a revised drilling procedure. The production casing will still be cemented it's entire length to the surface. Please see the attached drilling program for additional details. All other information remains the same. Please contact the undersigned with any questions and/or comments. Thank you.					
Accepted by the Utah Division of Oil, Gas and Mining Date: May 03, 2010 By: 					
NAME (PLEASE PRINT) Danielle Piernot	PHONE NUMBER 720 929-6156	TITLE Regulatory Analyst			
SIGNATURE N/A	DATE 4/6/2010				

KERR-McGEE OIL & GAS ONSHORE LP
DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP				DATE	April 6, 2010		
WELL NAME	Bonanza 1023-6N1CS				TD	8,400'	TVD	8,840' MD
FIELD	Natural Buttes		COUNTY	Uintah	STATE	Utah	ELEVATION	5,144' GL KB 5,159'
SURFACE LOCATION	NW/4 SW/4	1,550' FSL	739' FWL	Sec 6	T 10S	R 23E	Lot 6	
	Latitude:	39.974914	Longitude:	-109.376183			NAD 83	
BTM HOLE LOCATION	SE/4 SW/4	955' FSL	2,145' FWL	Sec 6	T 10S	R 23E		
	Latitude:	39.973300	Longitude:	-109.371175			NAD 83	
OBJECTIVE ZONE(S)	Wasatch/Mesaverde							
ADDITIONAL INFO	Regulatory Agencies: BLM (Minerals), BLM (Surface), Tri-County Health Dept.							

GEOLOGICAL			MECHANICAL		
LOGS	FORMATION TOPS	DEPTH	HOLE SIZE	CASING SIZE	MUD WEIGHT
		40'		14"	
			11"	8-5/8", 28#, IJ-55, LTC	Air mist
<p>All water flows encountered while drilling will be reported to the appropriate agencies.</p>					
	Green River @	1,138'			
	Top of Birds Nest @	1,375'			
	Mahogany @	1,877'			
	Preset f/ GL @	2,030'			
	MD				
<p>Note: 11" surface hole will usually be drilled ±400' below the lost circulation zone (aka bird's nest). Drilled depth may be ±200' of the estimated set depth depending on the actual depth of the loss zone.</p>					
	Wasatch @	4,122'			
<p>Mud logging program TBD Cased hole logging program from TD - surf csg</p>					
			7-7/8"	4-1/2" 11.6# I-80 or equivalent BTC csg	Water / Fresh Water Mud 8.3-11.6 ppg
	Mverde @	6,276' TVD			
	MVU2 @	7,219' TVD			
	MVU1 @	7,778' TVD			
<p>Max anticipated Mud required 11.6 ppg</p>					
	TD @	8,400' TVD 8,840' MD			



KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'						
						3,390	1,880	348,000
SURFACE	8-5/8"	0 to 2,030	28.00	IJ-55	LTC	1.00	1.98	6.06
						7,780	6,350	278,000
PRODUCTION	4-1/2"	0 to 8,840	11.60	I-80	BTC	2.42	1.25	3.11

*Burst on surface casing is controlled by fracture gradient as shoe with gas gradient above.

D.F. = 2.65

1) Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))

2) MASP (Prod Casing) = Pore Pressure at TD - (0.22 psi/ft-partial evac gradient x TD)

(Burst Assumptions: TD = 11.6 ppg)

0.22 psi/ft = gradient for partially evac wellbore

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

MASP 3,124 psi

3) Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

(Burst Assumptions: TD = 11.6 ppg)

0.59 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

MABHP 5,232 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl	215	60%	15.60	1.18
			+ 0.25 pps flocele				
Option 1							
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	260	0%	15.60	1.18
			+ 2% CaCl + 0.25 pps flocele				
			Premium cmt + 2% CaCl				
SURFACE			NOTE: If well will circulate water to surface, option 2 will be utilized				
Option 2	LEAD	1,530'	65/35 Poz + 6% Gel + 10 pps gilsonite	300	35%	12.60	1.81
			+ 0.25 pps Flocele + 3% salt BWOW				
	TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.60	1.18
			+ 0.25 pps flocele				
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	6,210'	Premium Lite II +0.25 pps	540	40%	11.00	3.38
			celloflake + 5 pps gilsonite + 10% gel				
			+ 0.5% extender				
	TAIL	2,630'	50/50 Poz/G + 10% salt + 2% gel	650	40%	14.30	1.31
			+ 0.1% R-3				

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. No centralizers will be used.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER:

John Huycke / Emile Goodwin

DATE:

DRILLING SUPERINTENDENT:

John Merkel / Lovel Young

DATE:

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
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	OTHER:	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. FINISHED DRILLING FROM 1941' TO 8800' ON MAY 23, 2010. RAN 4 1/2" 11.6# I-80 PRODUCTION CSG. PUMP 40 BBLS SPACER, LEAD CEMENT W/ 585 SX CLASS G PREM LITE @ 11.7 PPG, 2.5 YD. TAILED CEMENT W/ 617 SX CLASS G 50/50 POZ MIX @ 14.3 PPG, 1.31 YD. DISPLACED W/ 136 BBLS WATER, BUMPED PLUG, FLOATS HELD. RETURNED 15 BBLS CMT TO SURFACE. RD CEMENTERS AND CLEANED PITS. RELEASED ENSIGN RIG #146 ON MAY 25, 2010 @ 19:00 HRS.		
<div style="text-align: right;"> Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY May 26, 2010 </div>		
NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 5/26/2010	

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1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7.UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: Bonanza 1023-6N1CS
PHONE NUMBER: 720 929-6007 Ext		9. API NUMBER: 43047504540000
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1550 FSL 0739 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 06 Township: 10.0S Range: 23.0E Meridian: S		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
		COUNTY: UINTAH
		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 7/22/2010	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER	
	OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. THE SUBJECT WELL WAS PLACED ON PRODUCTION ON JULY 22, 2010 AT 9:00 A.M. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY August 03, 2010		
NAME (PLEASE PRINT) Andy Lytle		PHONE NUMBER 720 929-6100
SIGNATURE N/A		TITLE Regulatory Analyst
		DATE 8/2/2010

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
UTU38419

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.
Other _____

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

2. Name of Operator
KERR-MCGEE OIL&GAS ONSHORE-MAIL: GINA.BECKER@ANADARKO.COM

8. Lease Name and Well No.
BONANZA 1023-6N1CS

3. Address P.O. BOX 173779
DENVER, CO 80217

3a. Phone No. (include area code)
Ph: 720-929-6086

9. API Well No.
43-047-50454

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface NWSW 1550FSL 739FWL 39.97495 N Lat, 109.37550 W Lon

At top prod interval reported below SESW 962FSL 2140FWL

At total depth SESW 978FSL 2153FWL

10. Field and Pool, or Exploratory
NATURAL BUTTES

11. Sec., T., R., M., or Block and Survey
or Area Sec 6 T10S R23E Mer SLB

12. County or Parish
UINTAH

13. State
UT

14. Date Spudded
04/07/2010

15. Date T.D. Reached
05/23/2010

16. Date Completed
☐ D & A ☒ Ready to Prod.
07/22/2010

17. Elevations (DF, KB, RT, GL)*
5144 GL

18. Total Depth: MD 8800
TVD 8495

19. Plug Back T.D.: MD 8750
TVD 8445

20. Depth Bridge Plug Set: MD
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
CBL/GR-6HP-HDIL/ZDL/CN/GR

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit analysis)
Directional Survey? ☐ No ☒ Yes (Submit analysis)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
20.000	14.000 STEEL	36.7		40		28			
11.000	8.625 IJ-55	28.0		1919		425			
7.875	4.500 I-80	11.6		8789		1202			

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.375	8416							

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) MESAVERDE	6684	8766	6684 TO 8766	0.360	333	OPEN
B)						
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
6684 TO 8766	PUMP 10,041 BBLS SLICK H2O & 379,005 LBS 30/50 SAND.

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
07/22/2010	07/27/2010	24	→	0.0	2756.0	500.0			FLows FROM WELL
Choke Size	Tbg. Press. Flwg. 1900 SI	Csg. Press. 2800.0	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
20/64			→	0	2756	500		PGW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #91960 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED DIV. OF OIL, GAS & MINING

RECEIVED
SEP 09 2010

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

29. Disposition of Gas(Sold, used for fuel, vented, etc.)
SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
GREEN RIVER BIRD'S NEST MAHOGANY WASATCH MESAVERDE	1116 1377 1738 4313 6542	6542 8800	TD		

32. Additional remarks (include plugging procedure):

CHRONO DRILLING AND COMPLETION HISTORY AND DIRECTIONAL SURVEY ATTACHED.

33. Circle enclosed attachments:

- | | | | |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.) | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis | 7 Other: | |

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #91960 Verified by the BLM Well Information System.
For KERR-MCGEE OIL&GAS ONSHORE,L.P, sent to the Vernal

Name (please print) GINA T BECKERTitle REGULATORY ANALYST IISignature (Electronic Submission)Date 08/27/2010

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

Project: UINTAH COUNTY, UTAH (nad 27)
 Site: Bonanza 1023-6L Pad
 Well: BONANZA 1023-6N1CS
 Wellbore: BONANZA 1023-6N1CS
 Section: SECTION 6 T10S R22E
 SHL: 1550 FSL 739 FWL
 Design: BONANZA 1023-6N1CS
 Latitude: 39° 58' 29.809 N
 Longitude: 109° 22' 31.811 W
 GL: 5144.00
 KB: WELL @ 5158.00ft (Original Well Elev)



Weatherford



Azimuths to True North
 Magnetic North: 11.16°
 Magnetic Field
 Strength: 52458.1 nT
 Dip Angle: 65.92°
 Date: 5/4/2010
 Model: BGGM2009

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
1116.00	1116.02	GREEN RIVER
4121.00	4290.19	WASATCH
7215.00	7525.12	MESAVERDE

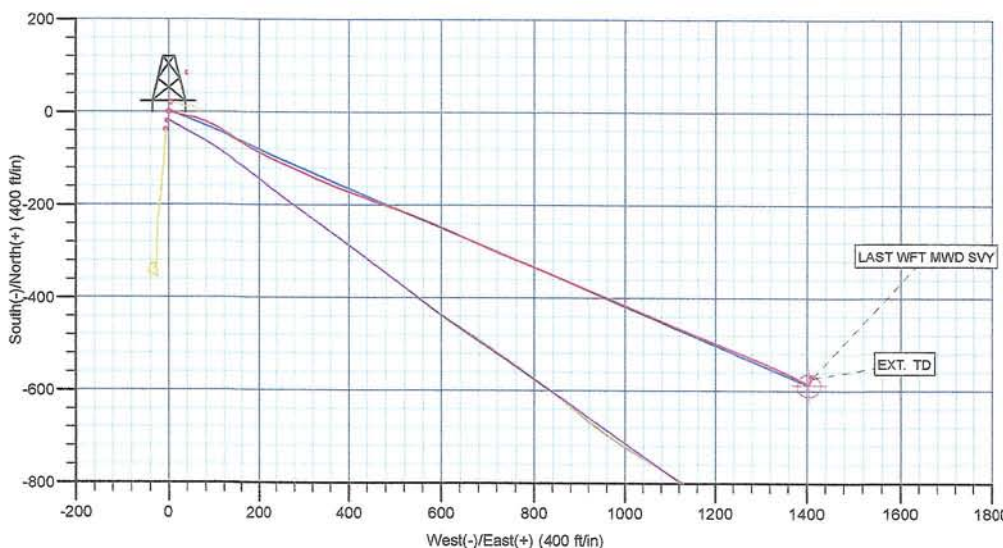
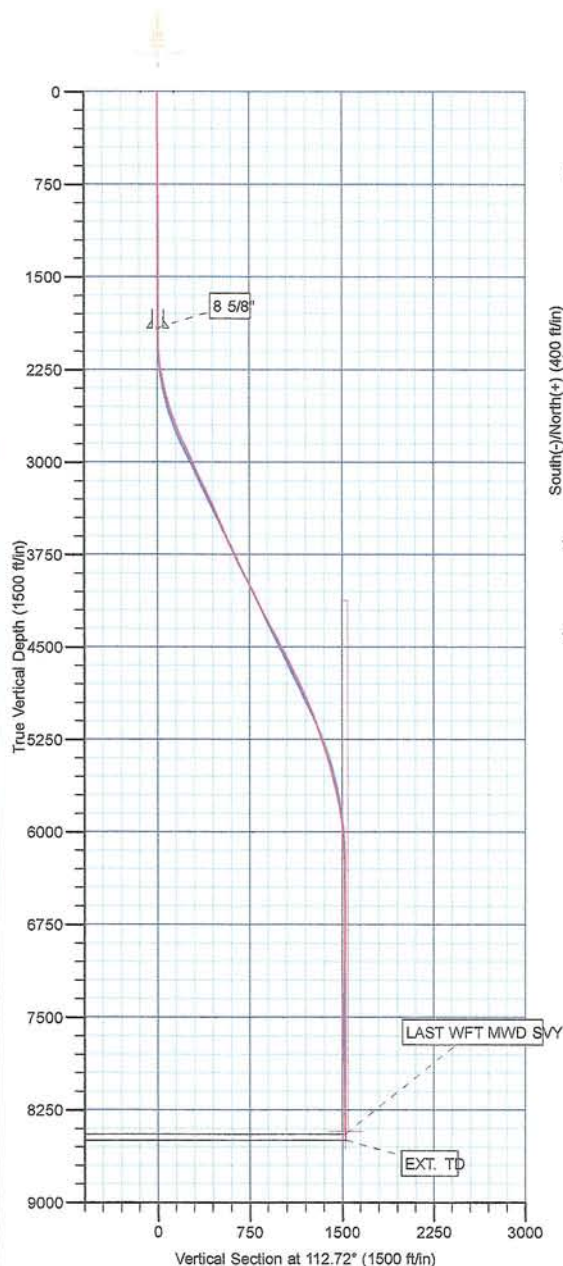
CASING DETAILS			
TVD	MD	Name	Size
1914.86	1914.90	8 5/8"	8.62

LEGEND	
Bonanza 1023-6L EXISTING, Bonanza 1023-6L EXISTING, Bonanza 1023-6L EXISTING V0	
BONANZA 1023-6N1CS, BONANZA 1023-6N1CS, BONANZA 1023-6N1CS V0	
BONANZA 1023-6N1CS, BONANZA 1023-6N1CS, BONANZA 1023-6N1CS V0	
BONANZA 1023-6N1CS, BONANZA 1023-6N1CS, PLAN #1 3-15-10 RWS V0	
BONANZA 1023-6N1CS, BONANZA 1023-6N1CS, BONANZA 1023-6N1CS V0	
BONANZA 1023-6N1CS, BONANZA 1023-6N1CS, PLAN #1 3-15-10 RWS V0	
BONANZA 1023-6N1CS	
WEATHERFORD MWD SVY	

SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Annotation
1892.00	0.13	315.83	1891.96	1.41	6.20	0.00	0.00	5.18	Start 123.04 hold at 1892.00 MD
2015.04	0.13	315.83	2015.00	1.61	6.01	0.00	0.00	4.92	Start DLS 3.00 TFC 157.16
2878.12	25.77	112.88	2849.40	-71.90	181.19	3.00	157.16	194.90	Start 2396.36 hold at 2878.12 MD
5274.49	25.77	112.88	5007.39	-477.01	1141.15	0.00	0.00	1236.83	Start Drop -2.00
6563.12	0.00	0.00	6253.00	-587.81	1403.69	2.00	180.00	1521.80	Start 2173.00 hold at 6563.12 MD
8736.12	0.00	0.00	8426.00	-587.81	1403.69	0.00	0.00	1521.80	TD at 8736.12

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)						
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
PBHL	8426.00	-587.81	1403.69	39° 58' 23.999 N	109° 22' 13.778 W	Circle (Radius: 25.00)

WELL DETAILS: BONANZA 1023-6N1CS						
+N/-S	+E/-W	Northing	Ground Level: Easting	5144.00 Latitude	Longitude	Slot
0.00	0.00	14521057.54	2095547.53	39° 58' 29.809 N	109° 22' 31.811 W	



Company: ANADARKO PETROLEUM CORP.
Project: UINTAH COUNTY, UTAH (nad 27)
Site: Bonanza 1023-6L Pad
Well: BONANZA 1023-6N1CS
Wellbore: BONANZA 1023-6N1CS
Design: BONANZA 1023-6N1CS

Local Co-ordinate Reference: Well BONANZA 1023-6N1CS
TVD Reference: WELL @ 5158.00ft (Original Well Elev)
MD Reference: WELL @ 5158.00ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.21 Single User Db

Project	UINTAH COUNTY, UTAH (nad 27),		
Map System:	Universal Transverse Mercator (US Survey Fee	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	Bonanza 1023-6L Pad, SECTION 6 T10S R22E				
Site Position:		Northing:	14,521,029.19 ft	Latitude:	39° 58' 29.431 N
From:	Lat/Long	Easting:	2,095,542.07 ft	Longitude:	109° 22' 31.890 W
Position Uncertainty:	0.00 ft	Slot Radius:	in	Grid Convergence:	1.04 °

Well	BONANZA 1023-6N1CS					
Well Position	+N/-S	0.00 ft	Northing:	14,521,067.54 ft	Latitude:	39° 58' 29.809 N
	+E/-W	0.00 ft	Easting:	2,095,547.53 ft	Longitude:	109° 22' 31.811 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,144.00 ft

Wellbore BONANZA 1023-6N1CS

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2009	5/4/2010	11.18	65.92	52,458

Design BONANZA 1023-6N1CS

Audit Notes:

Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	112.72	

Survey Program Date 5/24/2010

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
236.00	8,800.00	WEATHERFORD MWD SVY (BONANZA	MWD	MWD - Standard

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
236.00	0.44	118.20	236.00	-0.43	0.80	0.90	0.19	0.19	0.00
332.00	0.31	144.95	332.00	-0.82	1.27	1.49	0.22	-0.14	27.86
459.00	0.13	111.95	458.99	-1.15	1.60	1.92	0.17	-0.14	-25.98
650.00	0.31	80.58	649.99	-1.15	2.31	2.58	0.11	0.09	-16.42
841.00	0.44	110.33	840.99	-1.32	3.51	3.75	0.12	0.07	15.58
1,032.00	0.44	109.83	1,031.98	-1.82	4.89	5.21	0.00	0.00	-0.26
1,223.00	0.25	209.08	1,222.98	-2.43	5.38	5.90	0.28	-0.10	51.96
1,319.00	0.19	178.95	1,318.98	-2.78	5.28	5.94	0.13	-0.06	-31.39
1,415.00	0.38	37.58	1,414.98	-2.68	5.47	6.09	0.56	0.20	-147.26
1,606.00	1.00	9.33	1,605.97	-0.54	6.13	5.86	0.36	0.32	-14.79
1,702.00	0.44	359.33	1,701.96	0.66	6.26	5.52	0.60	-0.58	-10.42
1,828.00	0.13	359.08	1,827.96	1.29	6.25	5.27	0.25	-0.25	-0.20

Company: ANADARKO PETROLEUM CORP.
Project: UINTAH COUNTY, UTAH (nad 27)
Site: Bonanza 1023-6L Pad
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Wellbore: BONANZA 1023-6N1CS
Design: BONANZA 1023-6N1CS

Local Co-ordinate Reference: Well BONANZA 1023-6N1CS
TVD Reference: WELL @ 5158.00ft (Original Well Elev)
MD Reference: WELL @ 5158.00ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.21 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
1,892.00	0.13	315.83	1,891.96	1.41	6.20	5.18	0.15	0.00	-67.58
1,959.00	0.56	248.81	1,958.95	1.35	5.84	4.87	0.78	0.64	-100.03
2,050.00	2.13	124.83	2,049.94	0.22	6.82	6.20	2.73	1.73	-136.24
2,140.00	5.44	110.43	2,139.73	-2.22	12.19	12.10	3.80	3.68	-16.00
2,231.00	8.81	104.31	2,230.01	-5.45	22.99	23.31	3.79	3.70	-6.73
2,322.00	12.19	100.06	2,319.48	-8.86	39.21	39.58	3.81	3.71	-4.67
2,412.00	13.75	104.43	2,407.18	-13.18	58.92	59.44	2.05	1.73	4.86
2,503.00	15.00	114.18	2,495.34	-20.70	80.14	81.92	2.99	1.37	10.71
2,594.00	17.50	118.81	2,582.71	-32.12	102.88	107.30	3.09	2.75	5.09
2,685.00	21.50	120.81	2,668.47	-47.26	129.20	137.43	4.46	4.40	2.20
2,775.00	24.06	120.43	2,751.44	-65.00	159.19	171.94	2.85	2.84	-0.42
2,866.00	24.57	115.20	2,834.38	-82.46	192.31	209.23	2.43	0.56	-5.75
2,957.00	25.63	115.31	2,916.79	-98.93	227.22	247.80	1.17	1.16	0.12
3,047.00	24.94	112.68	2,998.16	-114.57	262.32	286.22	1.46	-0.77	-2.92
3,138.00	25.50	113.43	3,080.49	-129.75	298.00	324.99	0.71	0.62	0.82
3,229.00	24.63	112.81	3,162.92	-144.89	333.45	363.54	1.00	-0.96	-0.68
3,319.00	24.88	112.06	3,244.65	-159.27	368.29	401.23	0.45	0.28	-0.83
3,410.00	25.63	109.43	3,326.95	-173.01	404.59	440.02	1.48	0.82	-2.89
3,501.00	24.31	109.93	3,409.45	-185.94	440.76	478.38	1.47	-1.45	0.55
3,591.00	23.31	109.31	3,491.79	-198.15	474.98	514.66	1.15	-1.11	-0.69
3,682.00	23.31	110.06	3,575.36	-210.28	508.89	550.62	0.33	0.00	0.82
3,772.00	23.65	111.36	3,657.91	-222.96	542.43	586.45	0.69	0.38	1.44
3,863.00	23.56	112.81	3,741.29	-236.66	576.19	622.88	0.65	-0.10	1.59
3,953.00	26.75	113.56	3,822.75	-251.73	611.35	661.13	3.56	3.54	0.83
4,044.00	27.81	114.93	3,903.63	-268.87	649.37	702.82	1.35	1.16	1.51
4,135.00	26.38	113.93	3,984.64	-286.01	687.10	744.25	1.65	-1.57	-1.10
4,225.00	25.38	111.93	4,065.61	-301.33	723.27	783.53	1.47	-1.11	-2.22
4,316.00	26.13	112.31	4,147.57	-316.22	759.90	823.07	0.84	0.82	0.42
4,407.00	28.69	112.93	4,228.35	-332.34	798.56	864.96	2.83	2.81	0.68
4,497.00	28.75	112.68	4,307.28	-349.10	838.43	908.20	0.15	0.07	-0.28
4,588.00	27.94	112.56	4,387.36	-365.72	878.31	951.41	0.89	-0.89	-0.13
4,678.00	26.75	111.81	4,467.31	-381.33	916.59	992.75	1.38	-1.32	-0.83
4,769.00	26.81	112.18	4,548.55	-396.69	954.60	1,033.74	0.19	0.07	0.41
4,860.00	25.13	112.31	4,630.35	-411.77	991.49	1,073.59	1.85	-1.85	0.14
4,950.00	26.50	113.31	4,711.37	-426.98	1,027.61	1,112.78	1.60	1.52	1.11
5,041.00	25.44	112.56	4,793.18	-442.51	1,064.30	1,152.63	1.22	-1.16	-0.82
5,132.00	24.00	112.06	4,875.84	-456.96	1,099.51	1,190.68	1.60	-1.58	-0.55
5,222.00	22.75	112.81	4,958.45	-470.58	1,132.51	1,226.38	1.43	-1.39	0.83
5,313.00	21.38	111.43	5,042.79	-483.46	1,164.17	1,260.56	1.61	-1.51	-1.52
5,404.00	19.69	111.31	5,128.00	-495.09	1,193.90	1,292.48	1.86	-1.86	-0.13
5,494.00	18.00	111.43	5,213.17	-505.69	1,220.97	1,321.54	1.88	-1.88	0.13
5,585.00	18.31	111.68	5,299.64	-516.10	1,247.34	1,349.89	0.35	0.34	0.27
5,676.00	17.06	112.43	5,386.34	-526.48	1,272.96	1,377.53	1.40	-1.37	0.82
5,766.00	15.44	112.47	5,472.74	-536.09	1,296.24	1,402.71	1.80	-1.80	0.04
5,857.00	14.06	114.18	5,560.74	-545.25	1,317.52	1,425.88	1.59	-1.52	1.88
5,948.00	13.19	112.81	5,649.18	-553.80	1,337.17	1,447.31	1.02	-0.96	-1.51
6,039.00	11.19	115.56	5,738.13	-561.64	1,354.71	1,466.51	2.29	-2.20	3.02
6,129.00	9.50	114.93	5,826.66	-568.54	1,369.33	1,482.66	1.88	-1.88	-0.70
6,220.00	7.81	116.68	5,916.62	-574.48	1,381.66	1,496.33	1.88	-1.86	1.92
6,310.00	5.13	117.18	6,006.04	-579.07	1,390.71	1,506.44	2.98	-2.98	0.56
6,401.00	2.75	124.68	6,096.82	-582.17	1,396.12	1,512.64	2.67	-2.62	8.24
6,492.00	3.25	126.56	6,187.69	-584.95	1,399.99	1,517.28	0.56	0.55	2.07
6,582.00	0.81	186.31	6,277.63	-587.10	1,401.97	1,519.93	3.25	-2.71	66.39
6,673.00	0.50	182.93	6,368.63	-588.13	1,401.88	1,520.25	0.34	-0.34	-3.71

Company: ANADARKO PETROLEUM CORP.
Project: UINTAH COUNTY, UTAH (nad 27)
Site: Bonanza 1023-6L Pad
Well: BONANZA 1023-6N1CS
Wellbore: BONANZA 1023-6N1CS
Design: BONANZA 1023-6N1CS

Local Co-ordinate Reference: Well BONANZA 1023-6N1CS
TVD Reference: WELL @ 5158.00ft (Original Well Elev)
MD Reference: WELL @ 5158.00ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.21 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
6,763.00	2.50	31.06	6,458.60	-586.84	1,402.87	1,520.67	3.28	2.22	-168.74
6,854.00	2.06	37.31	6,549.53	-583.84	1,404.89	1,521.37	0.55	-0.48	6.87
6,945.00	1.75	29.06	6,640.48	-581.33	1,406.55	1,521.93	0.45	-0.34	-9.07
7,035.00	1.38	36.56	6,730.45	-579.26	1,407.86	1,522.34	0.47	-0.41	8.33
7,126.00	1.63	1.68	6,821.42	-577.08	1,408.56	1,522.14	1.03	0.27	-38.33
7,217.00	0.75	5.31	6,912.40	-575.20	1,408.65	1,521.50	0.97	-0.97	3.99
7,307.00	0.94	19.56	7,002.39	-573.91	1,408.95	1,521.28	0.31	0.21	15.83
7,398.00	1.30	327.38	7,093.37	-572.34	1,408.64	1,520.39	1.14	0.40	-57.34
7,489.00	1.19	337.68	7,184.35	-570.60	1,407.73	1,518.87	0.27	-0.12	11.32
7,579.00	1.06	333.18	7,274.33	-568.99	1,407.00	1,517.58	0.17	-0.14	-5.00
7,670.00	0.94	328.31	7,365.32	-567.60	1,406.23	1,516.33	0.16	-0.13	-5.35
7,761.00	0.63	351.93	7,456.31	-566.47	1,405.76	1,515.47	0.49	-0.34	25.96
7,852.00	0.13	42.06	7,547.31	-565.90	1,405.76	1,515.25	0.61	-0.55	55.09
7,942.00	0.31	91.93	7,637.31	-565.83	1,406.07	1,515.51	0.27	0.20	55.41
8,033.00	0.19	79.43	7,728.31	-565.81	1,406.47	1,515.86	0.14	-0.13	-13.74
8,124.00	0.06	121.43	7,819.31	-565.81	1,406.66	1,516.04	0.17	-0.14	46.15
8,215.00	0.63	97.68	7,910.31	-565.90	1,407.19	1,516.57	0.63	0.63	-26.10
8,305.00	0.81	133.06	8,000.30	-566.40	1,408.15	1,517.64	0.52	0.20	39.31
8,396.00	0.63	114.56	8,091.29	-567.05	1,409.07	1,518.75	0.32	-0.20	-20.33
8,487.00	0.63	138.43	8,182.29	-567.63	1,409.86	1,519.70	0.29	0.00	26.23
8,577.00	0.63	114.56	8,272.28	-568.21	1,410.64	1,520.64	0.29	0.00	-26.52
8,668.00	1.56	133.43	8,363.26	-569.27	1,411.99	1,522.29	1.08	1.02	20.74
LAST WFT MWD SVY									
8,750.00	1.64	149.72	8,445.23	-571.05	1,413.40	1,524.28	0.56	0.10	19.87
EXT. TD									
8,800.00	1.64	149.72	8,495.21	-572.28	1,414.12	1,525.42	0.00	0.00	0.00

Survey Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
8,750.00	8,445.23	-571.05	1,413.40	LAST WFT MWD SVY
8,800.00	8,495.21	-572.28	1,414.12	EXT. TD

Checked By: _____ Approved By: _____ Date: _____



ANADARKO PETROLEUM CORP.

UINTAH COUNTY, UTAH (nad 27)

Bonanza 1023-6L Pad

BONANZA 1023-6N1CS

BONANZA 1023-6N1CS

Survey: WEATHERFORD MWD SVY

Survey Report - Geographic

24 May, 2010



Company:	ANADARKO PETROLEUM CORP.	Local Co-ordinate Reference:	Well BONANZA 1023-6N1CS
Project:	UINTAH COUNTY, UTAH (nad 27)	TVD Reference:	WELL @ 5158.00ft (Original Well Elev)
Site:	Bonanza 1023-6L Pad	MD Reference:	WELL @ 5158.00ft (Original Well Elev)
Well:	BONANZA 1023-6N1CS	North Reference:	True
Wellbore:	BONANZA 1023-6N1CS	Survey Calculation Method:	Minimum Curvature
Design:	BONANZA 1023-6N1CS	Database:	EDM 2003.21 Single User Db

Project	UINTAH COUNTY, UTAH (nad 27),		
Map System:	Universal Transverse Mercator (US Survey Fee	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	Bonanza 1023-6L Pad, SECTION 6 T10S R22E				
Site Position:		Northing:	14,521,029.19 ft	Latitude:	39° 58' 29.431 N
From:	Lat/Long	Easting:	2,095,542.07 ft	Longitude:	109° 22' 31.890 W
Position Uncertainty:	0.00 ft	Slot Radius:	in	Grid Convergence:	1.04 °

Well	BONANZA 1023-6N1CS					
Well Position	+N/-S	0.00 ft	Northing:	14,521,067.54 ft	Latitude:	39° 58' 29.809 N
	+E/-W	0.00 ft	Easting:	2,095,547.53 ft	Longitude:	109° 22' 31.811 W
Position Uncertainty	0.00 ft		Wellhead Elevation:	ft	Ground Level:	5,144.00 ft

Wellbore	BONANZA 1023-6N1CS				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2009	5/4/2010	11.18	65.92	52,458

Design	BONANZA 1023-6N1CS				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	112.72	

Survey Program	Date 5/24/2010				
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
236.00	8,800.00	WEATHERFORD MWD SVY (BONANZA	MWD	MWD - Standard	

Company: ANADARKO PETROLEUM CORP.
Project: UINTAH COUNTY, UTAH (nad 27)
Site: Bonanza 1023-6L Pad
Well: BONANZA 1023-6N1CS
Wellbore: BONANZA 1023-6N1CS
Design: BONANZA 1023-6N1CS

Local Co-ordinate Reference: Well BONANZA 1023-6N1CS
TVD Reference: WELL @ 5158.00ft (Original Well Elev)
MD Reference: WELL @ 5158.00ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.21 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	14,521,067.54	2,095,547.53	39° 58' 29.809 N	109° 22' 31.811 W
236.00	0.44	118.20	236.00	-0.43	0.80	14,521,067.12	2,095,548.34	39° 58' 29.805 N	109° 22' 31.801 W
332.00	0.31	144.95	332.00	-0.82	1.27	14,521,066.75	2,095,548.82	39° 58' 29.801 N	109° 22' 31.794 W
459.00	0.13	111.95	458.99	-1.15	1.60	14,521,066.42	2,095,549.16	39° 58' 29.798 N	109° 22' 31.790 W
650.00	0.31	80.58	649.99	-1.15	2.31	14,521,066.43	2,095,549.87	39° 58' 29.798 N	109° 22' 31.781 W
841.00	0.44	110.33	840.99	-1.32	3.51	14,521,066.28	2,095,551.07	39° 58' 29.796 N	109° 22' 31.766 W
1,032.00	0.44	109.83	1,031.98	-1.82	4.89	14,521,065.81	2,095,552.46	39° 58' 29.791 N	109° 22' 31.748 W
1,223.00	0.25	209.08	1,222.98	-2.43	5.38	14,521,065.20	2,095,552.95	39° 58' 29.785 N	109° 22' 31.742 W
1,319.00	0.19	178.95	1,318.98	-2.78	5.28	14,521,064.86	2,095,552.86	39° 58' 29.782 N	109° 22' 31.743 W
1,415.00	0.38	37.58	1,414.98	-2.68	5.47	14,521,064.96	2,095,553.06	39° 58' 29.783 N	109° 22' 31.740 W
1,606.00	1.00	9.33	1,605.97	-0.54	6.13	14,521,067.11	2,095,553.67	39° 58' 29.804 N	109° 22' 31.732 W
1,702.00	0.44	359.33	1,701.96	0.66	6.26	14,521,068.31	2,095,553.78	39° 58' 29.816 N	109° 22' 31.730 W
1,828.00	0.13	359.08	1,827.96	1.29	6.25	14,521,068.94	2,095,553.76	39° 58' 29.822 N	109° 22' 31.730 W
1,892.00	0.13	315.83	1,891.96	1.41	6.20	14,521,069.06	2,095,553.71	39° 58' 29.823 N	109° 22' 31.731 W
1,959.00	0.56	248.81	1,958.95	1.35	5.84	14,521,068.99	2,095,553.35	39° 58' 29.823 N	109° 22' 31.736 W
2,050.00	2.13	124.83	2,049.94	0.22	6.82	14,521,067.88	2,095,554.35	39° 58' 29.811 N	109° 22' 31.723 W
2,140.00	5.44	110.43	2,139.73	-2.22	12.19	14,521,065.54	2,095,559.76	39° 58' 29.787 N	109° 22' 31.654 W
2,231.00	8.81	104.31	2,230.01	-5.45	22.99	14,521,062.50	2,095,570.62	39° 58' 29.755 N	109° 22' 31.515 W
2,322.00	12.19	100.06	2,319.48	-8.86	39.21	14,521,059.40	2,095,586.90	39° 58' 29.722 N	109° 22' 31.307 W
2,412.00	13.75	104.43	2,407.18	-13.18	58.92	14,521,055.43	2,095,606.69	39° 58' 29.679 N	109° 22' 31.054 W
2,503.00	15.00	114.18	2,495.34	-20.70	80.14	14,521,048.30	2,095,628.04	39° 58' 29.605 N	109° 22' 30.781 W
2,594.00	17.50	118.81	2,582.71	-32.12	102.88	14,521,037.30	2,095,650.98	39° 58' 29.492 N	109° 22' 30.489 W
2,685.00	21.50	120.81	2,668.47	-47.26	129.20	14,521,022.64	2,095,677.57	39° 58' 29.342 N	109° 22' 30.151 W
2,775.00	24.06	120.43	2,751.44	-65.00	159.19	14,521,005.44	2,095,707.88	39° 58' 29.167 N	109° 22' 29.766 W
2,866.00	24.57	115.20	2,834.38	-82.46	192.31	14,520,988.60	2,095,741.31	39° 58' 28.994 N	109° 22' 29.340 W
2,957.00	25.63	115.31	2,916.79	-98.93	227.22	14,520,972.77	2,095,776.52	39° 58' 28.831 N	109° 22' 28.892 W
3,047.00	24.94	112.68	2,998.16	-114.57	262.32	14,520,957.77	2,095,811.90	39° 58' 28.677 N	109° 22' 28.441 W
3,138.00	25.50	113.43	3,080.49	-129.75	298.00	14,520,943.24	2,095,847.85	39° 58' 28.527 N	109° 22' 27.982 W
3,229.00	24.63	112.81	3,162.92	-144.89	333.45	14,520,928.78	2,095,883.57	39° 58' 28.377 N	109° 22' 27.527 W
3,319.00	24.88	112.06	3,244.65	-159.27	368.29	14,520,915.00	2,095,918.66	39° 58' 28.235 N	109° 22' 27.080 W
3,410.00	25.63	109.43	3,326.95	-173.01	404.59	14,520,901.93	2,095,955.21	39° 58' 28.099 N	109° 22' 26.613 W
3,501.00	24.31	109.93	3,409.45	-185.94	440.76	14,520,889.65	2,095,991.61	39° 58' 27.971 N	109° 22' 26.148 W
3,591.00	23.31	109.31	3,491.79	-198.15	474.98	14,520,878.08	2,096,026.05	39° 58' 27.851 N	109° 22' 25.709 W
3,682.00	23.31	110.06	3,575.36	-210.28	508.89	14,520,866.57	2,096,060.17	39° 58' 27.731 N	109° 22' 25.273 W
3,772.00	23.65	111.36	3,657.91	-222.96	542.43	14,520,854.50	2,096,093.93	39° 58' 27.605 N	109° 22' 24.842 W
3,863.00	23.56	112.81	3,741.29	-236.66	576.19	14,520,841.42	2,096,127.94	39° 58' 27.470 N	109° 22' 24.409 W
3,953.00	26.75	113.56	3,822.75	-251.73	611.35	14,520,826.99	2,096,163.36	39° 58' 27.321 N	109° 22' 23.957 W
4,044.00	27.81	114.93	3,903.63	-268.87	649.37	14,520,810.55	2,096,201.69	39° 58' 27.152 N	109° 22' 23.469 W
4,135.00	26.38	113.93	3,984.64	-286.01	687.10	14,520,794.09	2,096,239.73	39° 58' 26.982 N	109° 22' 22.984 W
4,225.00	25.38	111.93	4,065.61	-301.33	723.27	14,520,779.44	2,096,276.17	39° 58' 26.831 N	109° 22' 22.519 W
4,316.00	26.13	112.31	4,147.57	-316.22	759.90	14,520,765.22	2,096,313.07	39° 58' 26.684 N	109° 22' 22.049 W
4,407.00	28.69	112.93	4,228.35	-332.34	798.56	14,520,749.80	2,096,352.02	39° 58' 26.524 N	109° 22' 21.552 W
4,497.00	28.75	112.68	4,307.28	-349.10	838.43	14,520,733.77	2,096,392.18	39° 58' 26.358 N	109° 22' 21.040 W
4,588.00	27.94	112.56	4,387.36	-365.72	878.31	14,520,717.88	2,096,432.36	39° 58' 26.194 N	109° 22' 20.528 W
4,678.00	26.75	111.81	4,467.31	-381.33	916.59	14,520,702.97	2,096,470.92	39° 58' 26.040 N	109° 22' 20.036 W
4,769.00	26.81	112.18	4,548.55	-396.69	954.60	14,520,688.30	2,096,509.21	39° 58' 25.888 N	109° 22' 19.547 W
4,860.00	25.13	112.31	4,630.35	-411.77	991.49	14,520,673.90	2,096,546.36	39° 58' 25.739 N	109° 22' 19.074 W
4,950.00	26.50	113.31	4,711.37	-426.98	1,027.61	14,520,659.36	2,096,582.75	39° 58' 25.589 N	109° 22' 18.610 W
5,041.00	25.44	112.56	4,793.18	-442.51	1,064.30	14,520,644.49	2,096,619.72	39° 58' 25.435 N	109° 22' 18.138 W
5,132.00	24.00	112.06	4,875.84	-456.96	1,099.51	14,520,630.69	2,096,655.18	39° 58' 25.292 N	109° 22' 17.686 W
5,222.00	22.75	112.81	4,958.45	-470.58	1,132.51	14,520,617.67	2,096,688.43	39° 58' 25.158 N	109° 22' 17.262 W
5,313.00	21.38	111.43	5,042.79	-483.46	1,164.17	14,520,605.37	2,096,720.32	39° 58' 25.030 N	109° 22' 16.855 W
5,404.00	19.69	111.31	5,128.00	-495.09	1,193.90	14,520,594.28	2,096,750.25	39° 58' 24.915 N	109° 22' 16.473 W
5,494.00	18.00	111.43	5,213.17	-505.69	1,220.97	14,520,584.18	2,096,777.51	39° 58' 24.811 N	109° 22' 16.126 W
5,585.00	18.31	111.68	5,299.64	-516.10	1,247.34	14,520,574.25	2,096,804.07	39° 58' 24.708 N	109° 22' 15.787 W

Company: ANADARKO PETROLEUM CORP.
Project: UINTAH COUNTY, UTAH (nad 27)
Site: Bonanza 1023-6L Pad
Well: BONANZA 1023-6N1CS
Wellbore: BONANZA 1023-6N1CS
Design: BONANZA 1023-6N1CS

Local Co-ordinate Reference: Well BONANZA 1023-6N1CS
TVD Reference: WELL @ 5158.00ft (Original Well Elev)
MD Reference: WELL @ 5158.00ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.21 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
5,676.00	17.06	112.43	5,386.34	-526.48	1,272.96	14,520,564.34	2,096,829.88	39° 58' 24.605 N	109° 22' 15.458 W
5,766.00	15.44	112.47	5,472.74	-536.09	1,296.24	14,520,555.15	2,096,853.32	39° 58' 24.510 N	109° 22' 15.159 W
5,857.00	14.06	114.18	5,560.74	-545.25	1,317.52	14,520,546.38	2,096,874.77	39° 58' 24.420 N	109° 22' 14.885 W
5,948.00	13.19	112.81	5,649.18	-553.80	1,337.17	14,520,538.19	2,096,894.57	39° 58' 24.335 N	109° 22' 14.633 W
6,039.00	11.19	115.56	5,738.13	-561.64	1,354.71	14,520,530.67	2,096,912.25	39° 58' 24.258 N	109° 22' 14.408 W
6,129.00	9.50	114.93	5,826.66	-568.54	1,369.33	14,520,524.04	2,096,926.99	39° 58' 24.189 N	109° 22' 14.220 W
6,220.00	7.81	116.68	5,916.62	-574.48	1,381.66	14,520,518.32	2,096,939.43	39° 58' 24.131 N	109° 22' 14.061 W
6,310.00	5.13	117.18	6,006.04	-579.07	1,390.71	14,520,513.91	2,096,948.56	39° 58' 24.085 N	109° 22' 13.945 W
6,401.00	2.75	124.68	6,096.82	-582.17	1,396.12	14,520,510.90	2,096,954.03	39° 58' 24.055 N	109° 22' 13.876 W
6,492.00	3.25	126.56	6,187.69	-584.95	1,399.99	14,520,508.20	2,096,957.94	39° 58' 24.027 N	109° 22' 13.826 W
6,582.00	0.81	186.31	6,277.63	-587.10	1,401.97	14,520,506.08	2,096,959.96	39° 58' 24.006 N	109° 22' 13.801 W
6,673.00	0.50	182.93	6,368.63	-588.13	1,401.88	14,520,505.04	2,096,959.89	39° 58' 23.996 N	109° 22' 13.802 W
6,763.00	2.50	31.06	6,458.60	-586.84	1,402.87	14,520,506.35	2,096,960.86	39° 58' 24.008 N	109° 22' 13.789 W
6,854.00	2.06	37.31	6,549.53	-583.84	1,404.89	14,520,509.39	2,096,962.82	39° 58' 24.038 N	109° 22' 13.763 W
6,945.00	1.75	29.06	6,640.48	-581.33	1,406.55	14,520,511.93	2,096,964.44	39° 58' 24.063 N	109° 22' 13.742 W
7,035.00	1.38	36.56	6,730.45	-579.26	1,407.86	14,520,514.03	2,096,965.72	39° 58' 24.083 N	109° 22' 13.725 W
7,126.00	1.63	1.68	6,821.42	-577.08	1,408.56	14,520,516.21	2,096,966.37	39° 58' 24.105 N	109° 22' 13.716 W
7,217.00	0.75	5.31	6,912.40	-575.20	1,408.65	14,520,518.10	2,096,966.43	39° 58' 24.124 N	109° 22' 13.715 W
7,307.00	0.94	19.56	7,002.39	-573.91	1,408.95	14,520,519.39	2,096,966.70	39° 58' 24.136 N	109° 22' 13.711 W
7,398.00	1.30	327.38	7,093.37	-572.34	1,408.64	14,520,520.96	2,096,966.37	39° 58' 24.152 N	109° 22' 13.715 W
7,489.00	1.19	337.68	7,184.35	-570.60	1,407.73	14,520,522.68	2,096,965.42	39° 58' 24.169 N	109° 22' 13.727 W
7,579.00	1.06	333.18	7,274.33	-568.99	1,407.00	14,520,524.28	2,096,964.66	39° 58' 24.185 N	109° 22' 13.736 W
7,670.00	0.94	328.31	7,365.32	-567.60	1,406.23	14,520,525.65	2,096,963.86	39° 58' 24.199 N	109° 22' 13.746 W
7,761.00	0.63	351.93	7,456.31	-566.47	1,405.76	14,520,526.77	2,096,963.38	39° 58' 24.210 N	109° 22' 13.752 W
7,852.00	0.13	42.06	7,547.31	-565.90	1,405.76	14,520,527.34	2,096,963.37	39° 58' 24.215 N	109° 22' 13.752 W
7,942.00	0.31	91.93	7,637.31	-565.83	1,406.07	14,520,527.42	2,096,963.68	39° 58' 24.216 N	109° 22' 13.748 W
8,033.00	0.19	79.43	7,728.31	-565.81	1,406.47	14,520,527.44	2,096,964.07	39° 58' 24.216 N	109° 22' 13.743 W
8,124.00	0.06	121.43	7,819.31	-565.81	1,406.66	14,520,527.45	2,096,964.26	39° 58' 24.216 N	109° 22' 13.740 W
8,215.00	0.63	97.68	7,910.31	-565.90	1,407.19	14,520,527.37	2,096,964.80	39° 58' 24.215 N	109° 22' 13.733 W
8,305.00	0.81	133.06	8,000.30	-566.40	1,408.15	14,520,526.88	2,096,965.77	39° 58' 24.210 N	109° 22' 13.721 W
8,396.00	0.63	114.56	8,091.29	-567.05	1,409.07	14,520,526.25	2,096,966.70	39° 58' 24.204 N	109° 22' 13.709 W
8,487.00	0.63	138.43	8,182.29	-567.63	1,409.86	14,520,525.69	2,096,967.50	39° 58' 24.198 N	109° 22' 13.699 W
8,577.00	0.63	114.56	8,272.28	-568.21	1,410.64	14,520,525.12	2,096,968.29	39° 58' 24.193 N	109° 22' 13.689 W
8,668.00	1.56	133.43	8,363.26	-569.27	1,411.99	14,520,524.09	2,096,969.66	39° 58' 24.182 N	109° 22' 13.672 W
LAST WFT MWD SVY									
8,750.00	1.64	149.72	8,445.23	-571.05	1,413.40	14,520,522.34	2,096,971.10	39° 58' 24.165 N	109° 22' 13.654 W
EXT. TD									
8,800.00	1.64	149.72	8,495.21	-572.28	1,414.12	14,520,521.11	2,096,971.84	39° 58' 24.152 N	109° 22' 13.644 W

Company: ANADARKO PETROLEUM CORP.
Project: UINTAH COUNTY, UTAH (nad 27)
Site: Bonanza 1023-6L Pad
Well: BONANZA 1023-6N1CS
Wellbore: BONANZA 1023-6N1CS
Design: BONANZA 1023-6N1CS

Local Co-ordinate Reference: Well BONANZA 1023-6N1CS
TVD Reference: WELL @ 5158.00ft (Original Well Elev)
MD Reference: WELL @ 5158.00ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.21 Single User Db

Survey Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
8,750.00	8,445.23	-571.05	1,413.40	LAST WFT MWD SVY
8,800.00	8,495.21	-572.28	1,414.12	EXT. TD

Checked By: _____ Approved By: _____ Date: _____

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6N1CS YELLOW			Spud Conductor: 4/7/2010			Spud Date: 4/12/2010			
Project: UTAH-UINTAH			Site: BONANZA 1023-6L PAD				Rig Name No: ENSIGN 146/146, CAPSTAR 310/310		
Event: DRILLING			Start Date: 4/8/2010			End Date: 5/25/2010			
Active Datum: RKB @5,158.01ft (above Mean Sea Leve			UWI: NW/SW/0/10/S/23/E/6/0/0/6/PM/S/1,550.00/W/0/739.00/0/0						
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation	
4/11/2010	20:30 - 21:30	1.00	RDMO	01	E	P		RIG DOWN RIG.LOWER DERICK.	
	21:30 - 23:30	2.00	MIRU	01	A	P		HOLD SAFETY MEETING, MOVE RIG OVER #2 OF 4 HOLES ON PAD. W 2 TRUCKS.	
4/12/2010	23:30 - 0:00	0.50	MIRU	01	B	P		RIG UP RIG.	
	0:00 - 0:30	0.50	MIRU	01	B	P		RIG UP RIG.	
	0:30 - 3:30	3.00	MIRU	14	A	P		WELD ON RISER, INSTALL BOWIE LINE. PRIME PIT PUMP, FILL PITS, INSPECT RIG. P/U 1.5 DEG BENT HOUSE MOTOR 7/8 LOBE 4 STAGE .16 RPG. M/U BIT #1 Q507F SN 7020055. (6TH RUN).	
	3:30 - 5:30	2.00	DRLSUR	02	B	P		INSTALL ROT HEAD RUBBER.	
	5:30 - 8:00	2.50	DRLSUR	06	A	P		DRILL 49'-184' W/ MOTOR AND BIT. SPUD 4/12/2010 03:30	
	8:00 - 18:00	10.00	DRLSUR	02	D	P		LD 6" DC'S, P/U DIRECTIONAL TOOLS , INSTALL ROT HEAD RUBBER.	
	18:00 - 0:00	6.00	DRLSUR	02	D	P		DRILL W/ MWD 184'- 1411' (1227', 123'/HR)WOB 8-12K, RPM 50, MOT RPM 88, GPM 550, ON/OFF PSI 950/700'. UP/DOWN/ROT45/42/40. LOSS PARTIAL RETURNS @ 1350', REGAIN MOST RETURNS WHILE CIRCULATING. CLEANING HOLE W/ POLY SWEEPS.	
4/13/2010	0:00 - 2:00	2.00	DRLSUR	02	D	P		DRILL W/ MWD 1411'-1810' (399',67'/HR) WOB 8-12K, RPM 50, MOT RPM 88, GPM 550, ON/OFF PSI 950/700'. UP/DOWN/ROT52/45/49. CIRC W/ 80 OR 90% OF RETURNS. CLEAN HOLE W/ POLY SWEEPS. NO AIR.	
	2:00 - 3:30	1.50	CSG	05	F	P		DRILL W/ MWD 1810'- 1941' (131, 66'/HR) TD 4/13/2010 02:00. WOB 8-13K, RPM 50, MOT RPM 88, GPM 550, ON/OFF PSI 1000/750'. UP/DOWN/ROT55/48/52 CIRC W/ 80 OR 90% OF RETURNS. CLEAN HOLE W/ POLY SWEEPS. NO AIR	
	3:30 - 6:00	2.50	CSG	06	D	P		CIRC AND CONDITION HOLE. CLEAN HOLE W/ POLY SWEEPS. NO AIR.	
	6:00 - 9:00	3.00	CSG	12	C	P		LDDS, LD DIRECTIONAL TOOLS, BREAK BIT AND LD MOTOR. PREPARE TO RUN CSG.	
	9:00 - 12:00	3.00	CSG	12	E	P		HOLD SAFETY MEETING, RUN 43 JTS OF 8-5/8" IJ-55 28# CSG W/ 8RD LTC THREADS AND LAND FLOAT SHOE @ 1914' KB . BAFFLE PLATE RAN IN TOP OF SHOE JT LANDED @ 1869' KB. FILL CSG 100, AND 1000'.	
								HOLD SAFETY MEETING W/ SUPERIOR WELL SERVICES CEMENTERS. INSTALL CEMENT HEAD ON TOP OF LANDING JT. PRESSURE TEST LINE TO 2000 PSI. PUMP 110 BBLS OF WATER AHEAD, PUMP 20 BBLS OF GEL WATER. PUMP 100 SX OF 11#, 3.52 YD, 23 GAL/SK HI FILL LEAD, PUMP 225 SX OF 15.8# 1.15 YD, 5 GAL/SK TAIL PREM. CLASS G CEMENT . DROP PLUG ON FLY, DISPLACE W/ 116.5 BBLS OF WATER. 250 PSI OF LIFT @ 2 BBLS/MIN RATE. 1 BBLS OF LEAD TO SURFACE. BUMP PLUG W/ 800 PSI. FLOAT HELD. CEMENT FELL. PUMP 100 SX OF 15.8# PREMIUM 3% CALC CEMENT DOWN BACK SIDE. NO CEMENT TO SURFACE. WAIT TILL NEXT JOB TO TOP OUT.	

US ROCKIES REGION

Operation Summary Report

Well: BONANZA 1023-6N1CS YELLOW			Spud Conductor: 4/7/2010			Spud Date: 4/12/2010		
Project: UTAH-UINTAH			Site: BONANZA 1023-6L PAD				Rig Name No: ENSIGN 146/146, CAPSTAR 310/310	
Event: DRILLING			Start Date: 4/8/2010		End Date: 5/25/2010			
Active Datum: RKB @5,158.01ft (above Mean Sea Leve			UWI: NW/SW/0/10/S/23/E/6/0/0/6/PM/S/1,550.00/W/0/739.00/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	12:00 - 13:30	1.50	RDMO	14	A	P		CUT OFF AND HANG RISER AND AND ROT HEAD. INSTALL HANG OFF BAR. LAND CSG AND BREAK OFF LANDING JT. CUT OFF CSG COLLAR AND TACK CAP ON TOP OF CSG. BREAK DOWN BOWIE LINE. RELEASE RIG 4/13/2010 13:30.
5/19/2010	19:00 - 20:00	1.00	MIRU	01	C	P		SKID RIG OVER WELL
	20:00 - 21:30	1.50	MAINT	08	A	P		CHANGED OUT RAM ON GRABBER BOX
	21:30 - 23:30	2.00	MAINT	09	A	P		CUT & SLIP DRILLINE
5/20/2010	23:30 - 0:00	0.50	MIRU	14	A	P		NIPPLE UP BOP
	0:00 - 1:00	1.00	MIRU	14	A	P		NIPPLE UP BOP
	1:00 - 5:00	4.00	MIRU	15	A	P		TEST BOP RAMS, CHOKE, HCR, KILLINE, TO 250 LOW, 5000 HIGH, ANNULAR 250 LOW, 2500 HIGH, CASING 1500
	5:00 - 5:30	0.50	MIRU	06	J	P		INSTALL WEAR BUSHING
	5:30 - 7:30	2.00	DRLPRO	08	A	Z		IRON DERRICKHAND WOULD NOT MOVE, QUICK COUPLER IN HYDROLIC ROOM BAD
	7:30 - 10:30	3.00	DRLPRO	06	A	P		L/D OLD MOTOR, KICK PAD IS GONE & STARTING TO CUT INTO BODY OF MOTOR, P/U NEW MOTOR SCRIBE DIRECTIONAL TOOLS, R.I.H TAG CMT. @ 1816 FT.
	10:30 - 11:00	0.50	DRLPRO	07	B	P		LEVEL DERRICK & INSTALL ROTATING HEAD
	11:00 - 13:30	2.50	DRLPRO	02	F	P		DRILL CMT, FLOAT, & SHOE
	13:30 - 0:00	10.50	DRLPRO	02	D	P		DRILL & SLIDE F/ 1946 TO 2956 - 1010 FT. 96 FT. PER/HR. MW 8.4, VIS 26, WOB 20, RPM 40, MMRPM 141, GPM 515, PSI ON BTM 1400, OFF 1150
5/21/2010	0:00 - 8:00	8.00	DRLPRO	02	D	P		DRILL & SLIDE F/ 2956 TO 3913 - 957 FT. 119 FT. PER/HR. MW 8.5, VIS 27, WOB 20, RPM 40, MMRPM 141, GPM 515, PSI ON BTM 1750, OFF 1150
	8:00 - 8:30	0.50	DRLPRO	08	A	Z		POWER SHOE ON IRON DERRICKHAND WOULDN'T OPEN, HAD TO OPEN UP MANUALLY
	8:30 - 12:00	3.50	DRLPRO	02	D	P		DRILL & SLIDE F/ 3913 TO 4275 - 362 FT. 103 FT. PER/HR. MW 8.5, VIS 27, WOB 20, RPM 40, MMRPM 141, GPM 515, PSI ON BTM 1800, OFF 1200
	12:00 - 12:30	0.50	DRLPRO	08	A	Z		POWER SHOE ON IRON DERRICKHAND HAD TO BE READJUSTED
	12:30 - 0:00	11.50	DRLPRO	02	D	P		DRILL & SLIDE F/ 4275 TO 5810 - 1535 FT. 133 FT. PER/HR. MW 10.6, VIS 34, WOB 20, RPM 40, MMRPM 141, GPM 515, PSI ON BTM 2050, OFF 1650
5/22/2010	0:00 - 0:00	24.00	DRLPRO	02	D	P		DRILL & SLIDE F/ 5810 TO 7358 - 1548 FT. 64.5 FT. PER/HR. MW 10.9, VIS 41, WOB 20, RPM 40, MMRPM 131, GPM 467, PSI ON BTM 2150 OFF 1850
5/23/2010	0:00 - 15:00	15.00	DRLPRO	02	D	P		DRILL F/ 7358 TO 8355 - 997 FT. 66 FT. PER/HR. MW 11.4, VIS 47, WOB 20, RPM 40, MMRPM 131, GPM 467, PSI ON BTM. 2450 OFF 2000
	15:00 - 15:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	15:30 - 22:00	6.50	DRLPRO	02	D	P		DRILL F/ 8355 TO 8800 TD - 445 FT. 68 FT. PER/HR. MW 11.5, VIS 42, WOB 20, RPM 40, MMRPM 131, GPM 467, PSI ON BTM 2450, OFF 2000
	22:00 - 23:30	1.50	DRLPRO	05	C	P		CIRC. 2 BTMS UP FOR WIPER TRIP
5/24/2010	23:30 - 0:00	0.50	DRLPRO	06	E	P		START WIPER TRIP PUMPING OUT STDs.
	0:00 - 8:00	8.00	DRLPRO	06	E	P		FINISH TRIPPING OUT FOR WIPER TRIP - PUMPED OUT 45 STDs.
	8:00 - 12:00	4.00	DRLPRO	06	E	P		TRIP IN THE HOLE
	12:00 - 13:00	1.00	DRLPRO	03	E	P		WASH & REAM 100 FT. TO BTM.
	13:00 - 14:30	1.50	DRLPRO	05	C	P		CIRC. 2 BTMS. UP

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6N1CS YELLOW			Spud Conductor: 4/7/2010			Spud Date: 4/12/2010				
Project: UTAH-UINTAH			Site: BONANZA 1023-6L PAD				Rig Name No: ENSIGN 146/146, CAPSTAR 310/310			
Event: DRILLING			Start Date: 4/8/2010					End Date: 5/25/2010		
Active Datum: RKB @5,158.01ft (above Mean Sea Leve			UWI: NW/SW/0/10/S/23/E/6/0/0/6/PM/S/1,550.00/W/0/739.00/0/0							
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation		
5/25/2010	14:30 - 16:00	1.50	DRLPRO	06	B	P		T.O.H FOR LOGS - PUMPED OUT 15 STDS.		
	16:00 - 17:00	1.00	DRLPRO	08	A	Z		MANUALLY OPEN UP POWER SHOE ON IRON DERRICKHAND		
	17:00 - 23:30	6.50	DRLPRO	06	B	P		T.O.H FOR LOGS		
	23:30 - 0:00	0.50	DRLPRO	06	J	P		RETRIEVE WEAR BUSHING		
	0:00 - 5:30	5.50	DRLPRO	11	D	P		RIG UP & RUN OPEN HOLE LOGS, FOUGHT THROUGH BRIDGES @ 4500 - 5000 FT. - LOGGERS TD 8798 FT.		
	5:30 - 13:30	8.00	DRLPRO	12	C	P		HELD SAFETY MEETING & RIG UP FRANKS CASING CREW, RAN 212 JTS. 4 1/2 11.6#, I-80 BTC CASING, SHOE SET @ 8789 FT. FLOAT COLLAR @ 8748.58, LANDED W/ 85K, WASH THROUGH BRIDGE @ 8116 FT.		
	13:30 - 14:30	1.00	DRLPRO	05	D	P		CIRC. BTMS. UP, HAD SOME GAS @ BTMS. UP GAINED 10 BBLS.		
	14:30 - 17:00	2.50	DRLPRO	12	E	P		HELD SAFETY MEETING W/ BJ SERVICES, RIGGED UP & PUMP 40 BBL. SPACER, LEAD W/ 585 SXS 260 BBLS. 11.7# 2.5 YIELD, TAIL W/ 617 SXS 143 BBLS. 14.3# 1.31 YIELD, DISPLACED W/ 136 BBLS WATER, BUMPED PLUG, FLOATS HELD, 1.5 BBLS. BACK TO TRUCK, 15 BBLS CMT. TO PIT, FINAL LIFT PSI 1950 PSI. EST. TOP TAIL 5240 FT.		
	17:00 - 19:00	2.00	DRLPRO	14	A	P		FLUSH STACK, NIPPLE DOWN BOP, CLEAN MUD TANKS, RELEASE RIG @ 19:00 5/25/2010		

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6N1CS YELLOW		Spud Conductor: 4/7/2010		Spud Date: 4/12/2010	
Project: UTAH-UINTAH		Site: BONANZA 1023-6L PAD			Rig Name No: ENSIGN 146/146, CAPSTAR 310/310
Event: DRILLING		Start Date: 4/8/2010		End Date: 5/25/2010	
Active Datum: RKB @5,158.01ft (above Mean Sea Leve		UWI: NW/SW/0/10/S/23/E/6/0/0/6/PM/S/1,550.00/W/0/739.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	19:00 - 19:00	0.00	DRLPRO					<p>CONDUCTOR CASING: Cond. Depth set: 44 Cement sx used:</p> <p>SPUD DATE/TIME: 4/12/2010 3:30</p> <p>SURFACE HOLE: Surface From depth:44 Surface To depth: 1,941 Total SURFACE hours: 20.00 Surface Casing size: 8 5/8 # of casing joints ran: 43 Casing set MD: 1,914.0 # sx of cement: 425 Cement blend (ppg): L 11 T 15.8 Cement yield (ft3/sk): L 3.52 T 1.15 # of bbls to surface: 0 Describe cement issues: TOPPED OUT W/ 100 SXS Describe hole issues:</p> <p>PRODUCTION: Rig Move/Skid start date/time: 5/19/2010 19:00 Rig Move/Skid finish date/time: 5/19/2010 20:00 Total MOVE hours: 1.0 Prod Rig Spud date/time: 5/20/2010 11:00 Rig Release date/time: 5/25/2010 19:00 Total SPUD to RR hours: 128.0 Planned depth MD 8,785 Planned depth TVD 8,475 Actual MD: 8,800 Actual TVD: 8,495 Open Wells \$: \$556,558 AFE \$: \$670,141 Open wells \$/ft: \$63.25</p> <p>PRODUCTION HOLE: Prod. From depth: 1,946 Prod. To depth: 8,800 Total PROD hours: 79 Log Depth: 8798 Production Casing size: 4 1/2 # of casing joints ran: 212 Casing set MD: 8,789.0 # sx of cement: L 585 T 617 Cement blend (ppg): L 11.7 T 14.3 Cement yield (ft3/sk): L 2.5 T 1.31 Est. TOC (Lead & Tail) or 2 Stage : 5240 Describe cement issues: 15 BBLs. TO PIT Describe hole issues: HIT BRIDGE WHILE RUNNING CASING @ 8116</p> <p>DIRECTIONAL INFO: KOP: 2,000 Max angle: 28.75 Departure: 1524.25 Max dogleg MD: 4.46</p>

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6N1CS YELLOW			Spud Conductor: 4/7/2010			Spud Date: 4/12/2010			
Project: UTAH-UINTAH			Site: BONANZA 1023-6L PAD				Rig Name No: SWABBCO 1/1		
Event: COMPLETION			Start Date: 7/9/2010				End Date: 7/21/2010		
Active Datum: RKB @5,158.01ft (above Mean Sea Level)			UWI: NW/SW/0/10/S/23/E/6/0/0/6/PM/S/1,550.00/W/0/739.00/0/0						
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation	
7/8/2010	7:00 - 10:00	3.00	COMP	30		P		ROAD RIG & MOVE EQUIPMENT FROM NBU 920-14M PAD TO LOC	
	10:00 - 10:15	0.25	COMP	48		P		JSA= TRAFFIC ON LOCATION	
	10:15 - 18:00	7.75	COMP	30		P		SPOT RIG & EQUIP, RU RIG ND WELL HEAD NU BOPS, TALLEY & PU TUBING TAG @ 8728' C/O & DRILL TO FLOAT COLLAR @ 8744' C/O @ DRILL TO 8764' CIRC CLEAN F/ 40 MINUTES RD PWR SWVL POOH 10 JNTS EOT @ 8470' SDFN	
7/9/2010	7:00 - 7:15	0.25	COMP	48		P		JSA= TRAFFIC ON LOCATION	
	7:15 - 12:00	4.75	COMP	30		P		0 PSI ON WELL, POOH LD TUBING LD BHA, FILL HOLE W/ TMAC RIG DOWN RIG & PUMP MOVE OFF. TO BONANZA 1023-4A, R/O B & C QUICK TEST PRESSURE TEST CSG & FRAC VALVE TO 7000#,	
	12:00 - 15:00	3.00	COMP	37	B	P		(STG #1) R/U CUTTER WIRELINE RIH W/ PERF GUNS, PERF THE MESAVERDE @ 8704' - 8706' 3-SPF, 8720' - 8724' 3-SPF, 8742' - 8746' 3-SPF, 8763' - 8766' 4-SPF, USING 3 3/8" SCALLOP GUNS, 90* PHS 0.36 HOLES 23 gm, 42 HOLES, HSM.	
7/12/2010	7:00 - 7:15	0.25	COMP	48		P			

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6N1CS YELLOW		Spud Conductor: 4/7/2010		Spud Date: 4/12/2010	
Project: UTAH-UINTAH		Site: BONANZA 1023-6L PAD			Rig Name No: SWABBCO 1/1
Event: COMPLETION		Start Date: 7/9/2010		End Date: 7/21/2010	
Active Datum: RKB @5,158.01ft (above Mean Sea Level)		UWI: NW/SW/0/10/S/23/E/6/0/0/6/PM/S/1,550.00/W/0/739.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	8:10 -		COMP	36	E	P		<p>FRAC STG #1 MESAVERDE 8704'-8766' [42 HOLES]</p> <p>STG #1] WHP=1000#, BEK DN PERFS=3558#, INJ RT=49.5, INJ PSI=4850#, ISIP=2328#, FG=.70, PUMP'D 1863 BBLs SLK WTR W/ 69168# 30/50 MESH W/ 5000# RESIN COAT IN TAIL, ISIP=2530#, FG=.72, AR=47, AP=4875#, MR=50, MP=6007#, NPI=202#, 31/40 CALC PERFS OPEN. 31/42 CALC PERFS OPEN.</p> <p>STG #2] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @ 8594' PERF MESAVERDE USING 3-3/8 EXPEND, 23 GRM, 0.36" HOLE. 8561'-8564' 4 SPF, 90* PH, 12 HOLES. 8548'-8550' 4 SPF, 90* PH, 8 HOLES. 8525'-8528' 3 SPF, 120* PH, 9 HOLES. 8492'-8494' 3 SPF, 120* PH, 6 HOLES. 8434'-8436' 3 SPF, 120* PH, 6 HOLES [42 HOLES]</p> <p>[MISSFIRE ON STG #2 SET PLUG, SHOT BOTTOM 2 GUNS WENT SHORT POOH TO FIX PROBLEM.]</p> <p>STG #2] WHP=2050#, BEK DN PERFS=2508#, INJ RT=44.5, INJ PSI=4646#, ISIP=2252#, FG=.70, PUMP'D 924 BBLs SLK WTR W/ 33718# 30/50 MESH W/ 5000# RESIN COAT IN TAIL, ISIP=2375#, FG=.71, AR=47, AP=4780#, MR=51, MP=5793#, NPI=123#, 30/40 CALC PERFS OPEN.</p> <p>STG #3] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @ 8370' PERF MESAVERDE USING 3-3/8 EXPEND, 23 GRM, 0.36" HOLE. 8334'-8340' 4 SPF, 90* PH, 24 HOLES. 8306'-8310' 4 SPF, 90* PH, 16 HOLES [40 HOLES]</p> <p>STG #3] WHP=2155#, BEK DN PERFS=2708#, INJ RT=49.8, INJ PSI=5254#, ISIP=2427#, FG=.73, PUMP'D 1038 BBLs SLK WTR W/ 39076# 30/50 MESH W/ 5000# RESIN COAT IN TAIL, ISIP=2661#, FG=.75, AR=50.2, AP=5284#, MR=51.2, MP=5836#, NPI=234#, 29/40 CALC PERFS OPEN.</p> <p>STG #4] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @ 8140' PERF MESAVERDE USING 3-3/8 EXPEND, 23 GRM, 0.36" HOLE. HSM, WORKING W/ CHEMICALS</p>
7/13/2010	7:00 - 7:15	0.25	COMP	48		P		

US ROCKIES REGION

Operation Summary Report

Well: BONANZA 1023-6N1CS YELLOW			Spud Conductor: 4/7/2010			Spud Date: 4/12/2010		
Project: UTAH-UINTAH			Site: BONANZA 1023-6L PAD				Rig Name No: SWABBCO 1/1	
Event: COMPLETION			Start Date: 7/9/2010		End Date: 7/21/2010			
Active Datum: RKB @5,158.01ft (above Mean Sea Level)			UWI: NW/SW/0/10/S/23/E/6/0/0/6/PM/S/1,550.00/W/0/739.00/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:15 -		COMP	36	E	P		FRAC STG #4 MESAVERDE 8072'-8110' [40 HOLES] STG #4] WHP=1914#, BEK DN PERFS=3720#, INJ RT=47, INJ PSI=5254#, ISIP=2746#, FG=., PUMP'D 1050 BBLS SLK WTR W/ 28155# 30/50 MESH W/ NO RESIN COAT IN TAIL, ISIP=#, FG=., AR=, AP=#, MR=, MP=#, NPI=#, 30/40 CALC PERFS OPEN. [SCREENED STG #4 OFF W/ 28155# SAND & NO RESIN COAT IN TAIL FLOWED WELL FOR 15 MIN, PUMP'D 90 BBLS LOCKED UP, FLOWED WELL BACK FOR 30 MIN TRIED TO REFLUSH W/ NO SUCCESS, FLOWED WELL FOR 4 HRS STILL COULD NOT FLUSH, PERF'D STG #5 W/ OUT SETTING PLUG] STG #5] DID NOT RUN PLUG, PERF MESAVERDE USING 3-3/8 EXPEND, 23 GRM, 0.36" HOLE. 7914'-7918' 4 SPF, 90* PH, 16 HOLES. 7902'-7904' 4 SPF, 90* PH, 8 HOLES. 7840'-7842' 4 SPF, 90* PH, 8 HOLES. 7818'-7822' 3 SPF, 120* PH, 12 HOLES [44 HOLES] STG #5] WHP=1570#, BEK DN PERFS=4211#, INJ RT=47, INJ PSI=5983#, ISIP=2138#, FG=.71, PUMP'D 1249 BBLS SLK WTR W/ 50614# 30/50 MESH W/ 5000# RESIN COAT IN TAIL, ISIP=1796#, FG=.66, AR=50, AP=4724#, MR=51.6, MP=5135#, NPI=-342#, 44/44 CALC PERFS OPEN. SWIFN. HSM.
7/14/2010	7:00 - 7:15	0.25	COMP	48		P		

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6N1CS YELLOW		Spud Conductor: 4/7/2010		Spud Date: 4/12/2010	
Project: UTAH-UINTAH		Site: BONANZA 1023-6L PAD			Rig Name No: SWABBCO 1/1
Event: COMPLETION		Start Date: 7/9/2010		End Date: 7/21/2010	
Active Datum: RKB @5,158.01ft (above Mean Sea Level)		UWI: NW/SW/0/10/S/23/E/6/0/0/6/PM/S/1,550.00W/0/739.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:15 - 18:00	10.75	COMP	36	E	P		<p>STG #6] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @ 7740' PERF MESAVERDE USING 3-3/8 EXPEND, 23 GRM, 0.36" HOLE. 7706'-7710' 4 SPF, 90* PH, 16 HOLES. 7667'-7669' 4 SPF, 90* PH, 8 HOLES. 7604'-7606' 4 SPF, 90* PH, 8 HOLES. 7530'-7532' 3 SPF, 120* PH, 6 HOLES. 7506'-7508' 3 SPF, 120* PH, 6 HOLES [44 HOLES]</p> <p>STG #6] WHP=1317#, BEK DN PERFS=2679#, INJ RT=50.2, INJ PSI=4874#, ISIP=1471#, FG=.63, PUMP'D 1615 BBLS SLK WTR W/ 65819# 30/50 MESH W/ 5000# RESIN COAT IN TAIL, ISIP=1849#, FG=.68, AR=50, AP=4193#, MR=50.7, MP=4533#, NPI=565#, 33/40 CALC PERFS OPEN.</p> <p>STG #7] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @ 7394' PERF MESAVERDE USING 3-3/8 EXPEND, 23 GRM, 0.36" HOLE. 7360'-7364' 4 SPF, 90* PH 16 HOLES. 7324'-7326' 4 SPF, 90* PH, 8 HOLES. 7276'-7280' 3 SPF, 120* PH, 12 HOLES. 7232'-7234' 3 SPF, 120* PH, 6 HOLES [42 HOLES]</p> <p>STG #7] WHP=570#, BEK DN PERFS=2985#, INJ RT=50.2, INJ PSI=4356#, ISIP=1488#, FG=.64, PUMP'D 1621 BBLS SLK WTR W/ 68754# 30/50 MESH W/ 5000# RESIN COAT IN TAIL, ISIP=2053#, FG=.72, AR=50.2, AP=3774#, MR=52.1, MP=4533#, NPI=565#, 30/40 CALC PERFS OPEN.</p> <p>STG #8] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @ 6768' PERF MESAVERDE USING 3-3/8 EXPEND, 23 GRM, 0.36" HOLE. 6782'-6788' 4 SPF, 90* PH, 24 HOLES. 6684'-6688' 4 SPF, 90* PH, 16 HOLES [40 HOLES]</p> <p>STG #8] WHP=500#, BEK DN PERFS=2611#, INJ RT=50, INJ PSI=4931#, ISIP=2062#, FG=.74, PUMP'D 681 BBLS SLK WTR W/ 23701# 30/50 MESH W/ 5000# RESIN COAT IN TAIL, ISIP=2280#, FG=.77, AR=50, AP=4734#, MR=50.4, MP=5074#, NPI=218#, 28/40 CALC PERFS OPEN.</p> <p>P/U RIH W/ HALIBURTON 8K CBP. SET CBP @ 6634' FOR TOP KILL. SWI. PREP TO DRILL OUT JSA MOVE EQUIPMENT</p>
7/20/2010	7:00 - 7:15	0.25	COMP	48		P		

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6N1CS YELLOW		Spud Conductor: 4/7/2010		Spud Date: 4/12/2010	
Project: UTAH-UINTAH		Site: BONANZA 1023-6L PAD		Rig Name No: SWABBCO 1/1	
Event: COMPLETION		Start Date: 7/9/2010		End Date: 7/21/2010	
Active Datum: RKB @5,158.01ft (above Mean Sea Level)		UWI: NW/SW/0/10/S/23/E/6/0/0/6/PM/S/1,550.00/W/0/739.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:15 - 17:00	9.75	COMP	30		P		RU RIG SPOT EQUIP ND FRAC VALVES NU BOPS TALLEY & PU PIPE TAG TOP PLUG @ 6634' RU PWR SWVL EST CIRC PRESS TEST 3000# PLUG #1] DRILL THRU HALLI 8K CBP @ 6634' IN 6 MIN W/ 50# INCREASE PLUG #2] CONTINUE TO RIH TAG SAND @ 6788' (30' FILL) C/O & DRILL THRU HALLI 8K CBP @ 6818' IN 20 MIN W/ 200# INCREASE PLUG #3] CONTINUE TO RIH TAG SAND @ 7364' (30' FILL) C/O & DRILL THRU HALLI 8K CBP @ 7394' IN 11 MIN W/ 100# INCREASE PLUG #4] CONTINUE TO RIH TAG SAND @ 7710' (30' FILL) C/O & DRILL THRU HALLI 8K CBP @ 7740' IN 9 MIN W/ 200# INCREASE (350# ON WELL) PLUG #5] CONTINUE TO RIH TAG SAND @ C/O SAND TO CBP @ 8140' CIRC CLEAN POOH ABOVE PERFS SWIFN CONTINUE DRILLING IN AM EOT @ 6642' JSA= HOT WEATHER SIWP= 1900# OPEN WELL TO PIT RIH TAG @8345' PLUG #6] TAG SAND @ 8110' (30' FILL) C/O & DRILL THRU HALLI 8K CBP @ 8140' IN 9 MIN W/ 100# INCREASE (450# ON WELL) PLUG #7] CONTINUE TO RIH TAG SAND @ 8349' (25' FILL) C/O & DRILL THRU HALLI 8K CBP @ 8370' IN 7 MIN W/ 150# INCREASE PLUG #8] CONTINUE TO RIH TAG SAND @ 8569' (25' FILL) C/O & DRILL THRU HALLI 8K CBP @ 8594' IN 13 MIN W/ 150# INCREASE (700# ON WELL) CONTINUE TO RIH TAG SAND @ 8750' C/O TO 8765' CIRC CLEAN POOH LD 11 JNTS LAND TUBING ON HANGER W/ 267 JNS OF 2-3/8" L-80 TUBING EOT @ 8416.63' RD FLOOR & TUBING EQUIP ND BOPS NU WELL HEAD DROP BALL PUMP OFF BIT @2600 # SWI 30 MIN TURN WELL OVER TO FBC W/ TOTAL PUMPED= 10065 BBLS, RIG REC= 2100BBLS, LEFT TO REC= 7965 BBLS, RIG DOWN MOVE TO BLUE WELL 7 AM FLBK REPORT: CP 2650#, TP 1950#, 20/64" CK, 49 BWPH, TRACE SAND, LIGHT GAS TTL BBLS RECOVERED: 3291 BBLS LEFT TO RECOVER: 6774 WELL TURNED TO SALES @ 0900 HR ON 7/22/2010 - 1300 MCFD, 1176 BWPD, CP 2950#, FTP 1950#, CK 20/64"
7/21/2010	7:00 - 7:15	0.25	COMP	48		P		
	7:15 - 15:00	7.75	COMP	30		P		
7/22/2010	7:00 -			33	A			
	9:00 -		PROD	50				
7/23/2010	7:00 -			33	A			
7/24/2010	7:00 -			33	A			

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6N1CS YELLOW			Spud Conductor: 4/7/2010			Spud Date: 4/12/2010		
Project: UTAH-UINTAH			Site: BONANZA 1023-6L PAD				Rig Name No: SWABBCO 1/1	
Event: COMPLETION			Start Date: 7/9/2010				End Date: 7/21/2010	
Active Datum: RKB @5,158.01ft (above Mean Sea Level)			UWI: NW/SW/0/10/S/23/E/6/0/0/6/PM/S/1,550.00/W/0/739.00/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
7/25/2010	7:00 -			33	A			7 AM FLBK REPORT: CP 2900#, TP 1975#, 20/64" CK, 24 BWPH, TRACE SAND, - GAS TTL BBLS RECOVERED: 5777 BBLS LEFT TO RECOVER: 4288

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9			
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 38419			
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:			
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME:			
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: BONANZA 1023-6N1CS			
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1550 FSL 0739 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 06 Township: 10.0S Range: 23.0E Meridian: S		9. API NUMBER: 43047504540000			
PHONE NUMBER: 720 929-6515 Ext		9. FIELD and POOL or WILDCAT: NATURAL BUTTES			
COUNTY: UINTAH		STATE: UTAH			
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA					
TYPE OF SUBMISSION	TYPE OF ACTION				
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 4/4/2011 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </td> <td style="width: 33%; vertical-align: top;"> <input checked="" type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/> </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input checked="" type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input checked="" type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>			
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The operator requests approval to conduct wellhead repair/re-completion operations on the subject well location. The operator proposes to re-complete the Wasatch formation. The operator also requests authorization to commingle the newly Wasatch and existing Mesaverde formations. Please refer to the attached wellhead repair/re-completion procedures.					
Accepted by the Utah Division of Oil, Gas and Mining Date: 04/05/2011 By:					
NAME (PLEASE PRINT) Gina Becker		PHONE NUMBER 720 929-6086			
SIGNATURE N/A		TITLE Regulatory Analyst II			
		DATE 4/4/2011			



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Sundry Conditions of Approval Well Number 43047504540000

Authorization: Board Cause No. 179-14.

Greater Natural Buttes Unit



BONANZA 1023-6N1CS

WELLHEAD CHANGEOUT & RE-COMPLETIONS PROCEDURE

DATE:1/18/2011

AFE#:

WO#: (For Wellhead Changeout)

USER ID:JVN975 (Frac Invoices Only)

COMPLETIONS ENGINEER: Michael Sollee, Denver, CO
(720)-929-6057 (Office)
(832)-859-0515 (Cell)

SIGNATURE:

ENGINEERING MANAGER: JEFF DUFRESNE

SIGNATURE:

REMEMBER SAFETY FIRST!

RECEIVED Apr. 04, 2011

Name: Bonanza 1023-6N1CS
Location: NWSW Sec. 6 10S 23E
Uintah County, UT
Date: 1/18/11

ELEVATIONS: 5144' GL 5159' KB

TOTAL DEPTH: 8800' **PBTD:** 8750'
SURFACE CASING: 8 5/8", 28# J-55 LT&C @ 1920'
PRODUCTION CASING: 4 1/2", 11.6#, I-80 BT&C @ 8789'
 Marker Joint **6255-6276'**

TUBULAR PROPERTIES:

	BURST (psi)	COLLAPSE (psi)	DRIFT DIA. (in.)	CAPACITIES	
				(bbl/ft)	(gal/ft)
2 3/8" 4.7# J-55 tbg	7,700	8,100	1.901"	0.00387	0.1624
4 1/2" 11.6# I-80 (See above)	7780	6350	3.875"	0.0155	0.6528
2 3/8" by 4 1/2" Annulus				0.0101	0.4227

TOPS: **BOTTOMS:**

1116' Green River Top
 1377' Bird's Nest Top
 1738' Mahogany Top
 4313' Wasatch Top
 6542' Mesaverde Top

6542' Wasatch Bottom
 8800' Mesaverde Bottom (TD)

T.O.C. @ 2000'

Relevant History:

- Jul 2010 – Initial Completion – 8 slickwater stages in MVD; C/O to PBTD @ 8765'. Land tubing @ 8417'
- Sep 2010 – Slickline ran. Max TD @ 8416'. Could not get any deeper. Found scale.
- Oct 2010 – Slickline ran. Max TD @ 7389'. Could not get any deeper. Heavy trash on tubing.
- Dec 2010 – Workover plugged SN. LD 4 Scaled jts tbg. EOT 8430'
- Jan 2011 – Slickline ran. Stacked out at 8728. (60 ft above PBTD). Drop Spring.

Existing Perforations:

STAGE	ZONE	MD TOP (ft)	MD Base (ft)	SPF	Total Shots
8	MESAVERDE	6684	6688	4	16
	MESAVERDE	6782	6788	4	24
7	MESAVERDE	7232	7234	3	6
	MESAVERDE	7276	7280	3	12
	MESAVERDE	7324	7326	4	8
	MESAVERDE	7360	7364	4	16
6	MESAVERDE	7506	7508	3	6
	MESAVERDE	7530	7532	3	6
	MESAVERDE	7604	7606	4	8
	MESAVERDE	7667	7669	4	8
	MESAVERDE	7706	7710	4	16
5	MESAVERDE	7818	7822	3	12
	MESAVERDE	7840	7842	4	8
	MESAVERDE	7902	7904	4	8
	MESAVERDE	7914	7918	4	16
4	MESAVERDE	8072	8076	4	16
	MESAVERDE	8104	8110	4	24
3	MESAVERDE	8306	8310	4	16
	MESAVERDE	8334	8340	4	24
EOT @ 8430'					
2	MESAVERDE	8434	8436	3	6
	MESAVERDE	8492	8494	3	6
	MESAVERDE	8525	8528	3	9
	MESAVERDE	8548	8550	4	8
	MESAVERDE	8561	8564	4	12
1	MESAVERDE	8704	8706	3	6
	MESAVERDE	8720	8724	3	12
	MESAVERDE	8742	8746	3	12
	MESAVERDE	8763	8766	4	12

Bonanza 1023-6N1CS- WELLHEAD REPLACEMENT PROCEDURE

PREP-WORK PRIOR TO MIRU:

1. Dig out down to the 2" surface casing valve or to the valve on the riser off the surface casing.
2. Install a tee with 2 valves, with a pressure gauge and sensor on one valve.
3. Open casing valve and record pressures.
4. Install nipple and steel hose on the other valve, the relief valve,. Do not use hammer unions. No impact equipment or tools to be used for any of this installation. Extend hose and hard piping to a downwind location at least 100' from the wellhead. Consider installing a manifold so that vent area could be in two locations approx. 90 degrees apart from the wellhead.
5. Open the relief valve and blow well down to the atmosphere.
6. Make a determination of amount of gas flow, either by installation of a choke nipple, bucket test or other.
7. Shut well in. Observe for rate of build-up by utilizing sensor data. Do not build-up for more than 24 hours. Vent gas through the vent line and leave open to the atmosphere.

WORKOVER PROCEDURE:

1. MIRU workover rig.
2. Kill well with 10# brine / KCL (dictated by well pressure).
3. Remove tree, install double BOP with blind and 2 3/8" pipe rams, with accumulator closing unit and manual back-ups. Function test BOP system.
4. Pooh w/ tubing.
5. Rig up wireline service. RIH and set CBP @ ~6634'. Dump bail 4 sx cement on top of plug. POOH and RD wireline service.
6. Remove BOP and ND WH.
7. Depending on conditions at wellsite, continue with either CUT/PATCH Procedure or BACK-OFF Procedure.

CUT/PATCH PROCEDURE:

1. PU internal casing cutters and RIH. Cut casing at +/- 30' from surface.

2. POOH, LD cutters and casing.
3. PU 1 joint of 3 ½" IF drill pipe with 4 ½" right hand standard grapple overshot. Pull a minimum of 10,000# to keep grapple engaged if cement top is high (<~900'). If cement top is low (>~900'), more weight will be required to put casing in neutral. Torque casing string to +/- 7,000 ft-lbs count number of turns to make-up, and document in the daily report. Release overshot, POOH, and lay down.
4. (Following an overshot run, the casing will have to be cut below the place where the overshot was engaged on the outside of the 4-1/2" casing and that piece of casing retrieved. The overshot will scar the outside of the casing, making the casing patch integrity questionable.)
4. PU & RIH w/ 4 ½" 10k external casing patch on 4 ½" P-110 casing.
5. Latch fish, PU to 100,000# tension. (Do not exceed a tensile pull of 100,000 lbs during pressure test.) RU B&C. Cycle pressure test to 6200 #.
6. Install C-22 slips. Land casing w/ 80,000# tension.
7. Cut-off and dress 4 ½" casing stub.
8. NUWH. PU 3 7/8" bit and RIH. Clean out to ~**6568'**.
9. POOH
10. NU Frac Valves, Test frac valves and casing to 1000 and 3500 psi for 15 minutes each and to 6200 psi for 30 minutes. Test 4-1/2 x 8-5/8" annulus to 200 psi for 15 minutes and check for communication to the production casing. As per standard operating procedure install steel blowdown line to reserve pit from 4-1/2" X 8-5/8" annulus with pressure relief valve in line. Pressure relief will be set to release at 500 psig. Lock **OPEN** the Braden head valve. Annulus will be monitored throughout stimulation. If release occurs, stimulation will be shut down. Well conditions will be assessed and actions taken as necessary to secure the well. UDOGM will be notified if a release to the annulus occurs.
11. RDMO. Turn well over to completions.

BACK-OFF PROCEDURE:

1. PU internal casing cutters and RIH. Cut casing at +/- 6' from surface.
2. POOH, LD cutters and casing.
3. PU 4 ½" overshot. RIH, latch fish. Pick string weight to neutral.
4. (Following an overshot run, the casing will have to be cut below the place where the overshot was engaged on the outside of the 4-1/2" casing and that piece of

casing retrieved. The overshoot will scar the outside of the casing, making the casing patch integrity questionable.)

5. MIRU wireline services. RIH and shoot string shot at casing collar @ **54'** (**1st casing collar below mandrel**).
6. MIRU casing crew.
7. Back-off casing, POOH.
8. PU new casing joint w/ entry guide and RIH. Tag casing top. Thread into casing and torque up to +/- 7000 ft-lbs, count number of additional turns to make-up, and document in the daily report.
9. PU 100,000# tension string weight. RU B&C. Cycle pressure test to 6200 #
10. Install C-22 slips. Land casing w/ 80,000# tension.
11. Cut-off and dress 4 ½" casing stub.
12. NUWH. PU 3 7/8" bit and RIH. Clean out to ~**6568'**.
13. POOH
14. NU Frac Valves, Test frac valves and casing to 1000 and 3500 psi for 15 minutes each and to 6200 psi for 30 minutes. Test 4-1/2 x 8-5/8" annulus to 200 psi for 15 minutes and check for communication to the production casing. As per standard operating procedure install steel blowdown line to reserve pit from 4-1/2" X 8-5/8" annulus with pressure relief valve in line. Pressure relief will be set to release at 500 psig. Lock **OPEN** the Braden head valve. Annulus will be monitored throughout stimulation. If release occurs, stimulation will be shut down. Well conditions will be assessed and actions taken as necessary to secure the well. UDOGM will be notified if a release to the annulus occurs.
15. RDMO. Turn well over to completions.

Frac Procedure-GENERAL:

- A minimum of **6** tanks (cleaned lined 500 bbl) of recycled water will be required. Note: Use biocide in tanks and the water needs to be at least 45°F at pump time.
- All perforation depths are from Bakers Induction-Density-Neutron log dated 5/24/2010
- **3** fracturing stages required for coverage.
- Procedure calls for **4** CBP's (**8000** psi) .
- Calculate open perforations after each breakdown. If less than 60% of the perforations appear to be open, ball out with 15% HCl.
- Pump scale inhibitor at 3 gpt (in pad and until 1.25 ppg ramp up is reached) and 10 gpt in all flushes except the final stage. Remember to pre-load the casing with scale inhibitor for the very first stage with 10 gpt.
- 30/50 mesh Ottawa sand, **Slickwater frac**.
- Maximum surface pressure **6200** psi.
- Flush volumes are the sum of slick water and acid used during displacement (include scale inhibitor as mentioned above). Stage acid and scale inhibitor if necessary to cover the next perforated interval.
- **Call flush at 0 PPG @ inline densimeters. Slow to 5 bbl/min over last 10-20 bbls of flush. Flush to top perf.**
- **If distance between plug and top perf of previous stage is less than 50', it is considered to be tight spacing - over flush stage by 5 bbls (from top perf)**
- Service companies need to provide surface/production annulus pop-offs to be set for 500 psi for each frac.
- Pump 20/40mesh **resin coated sand** last 5,000# of all frac stages
- Tubing Currently Landed @~8430
- Originally completed on 7/12/2010

PROCEDURE: (If using any chemicals for pickling tubing or H2S Scavenging, have MSDS for all chemicals prior to starting work.)

1. MIRU.

2. Perf the following with 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
WASATCH	6288	6289	3	3
WASATCH	6327	6328	3	3
WASATCH	6373	6375	3	6
WASATCH	6497	6498	3	3
WASATCH	6536	6538	3	6

3. Breakdown perfs and establish injection rate (include scale inhibitor in fluid). Spot 250 gals of 15% HCL and let soak 5-10 min. Fracture as outlined in Stage 1 on attached listing. Under-displace to ~6288' and trickle 250gal 15%HCL w/ scale inhibitor in flush .

4. Set 8000 psi CBP at ~6,238'. Perf the following 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	6014	6016	4	8
WASATCH	6048	6050	4	8
WASATCH	6186	6188	4	8

5. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 2 on attached listing. Under-displace to ~6014' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

6. Set 8000 psi CBP at ~5,725'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	5498	5500	4	8
WASATCH	5622	5625	4	12

7. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 3 on attached listing. Under-displace to ~5498' flush only with recycled water.

8. Set 8000 psi CBP at ~5,448'.

9. ND Frac Valves, NU and Test BOPs.

10. TIH with 3 7/8" bit, pump off sub, SN and tubing.

11. Drill plugs and clean out to PBTD. Shear off bit and land tubing at **±8430'** unless indicated otherwise by the well's behavior. The well will be commingled at this time.

12. Clean out well with foam and/or swabbing unit until steady flow has been established from completion.

13. **Leave surface casing valve open.** Monitor and report any flow from surface casing. RDMO

For design questions, please call
Michael Sollee, Denver, CO
(720)-929-6057 (Office)
(832)-859-0515 (Cell)

For field implementation questions, please call
Jeff Samuels, Vernal, UT
435-781 7046 (Office)

NOTES:

If using any chemicals for pickling tubing or H2S Scavenging, have MSDS for all chemicals prior to starting work

Acid Pickling and H2S Procedures (If Required)

****PROCEDURE FOR PUMPING ACID DOWN TBG**

WHEN FINDING SCALE IN TUBING THAT IS ACID SOLUBLE, ENSURE THAT PLUNGER EQUIPMENT IS REMOVED AND ABLE TO PUMP DOWN TBG. INSTALL A 'T' IN PUMP LINE W/2" VALVE THAT NALCO CAN TIE INTO. HAVE 60 BBLS 2% KCL MIXED W/ 10-15 GAL H2S SCAVENGER IN RIG FLAT TANK. (WE USED THE RIG FLAT TANK FOR MIXING CHEMICAL SO WE DIDN'T HAVE THE CHEMICAL IN ALL FLUIDS ON LOCATION, ONLY WHAT WE NEEDED TO PUMP DOWN HOLE)

1. PUMP 5-10 BBLS 2% KCL DOWN TBG (NALCO CANNOT PUMP AGAINST PRESSURE)
2. NALCO WILL PUMP 3 DRUMS HCL (31%) INTO PUMP LINE.
3. FLUSH BEHIND ACID WITH 10-15 BBL 2% KCL
4. PUMP 2—30 BBL 2% W/ H2S SCAVENGER DOWN TBG.
5. PUMP REMAINDER OF 2% W/ H2S SCAVENGER DOWN CASING AND SHUT WELL IN FOR MINIMUM OF 2 HRS.
6. OVER DISPLACE DOWN TBG AND CSG TO FLUSH ACID AND SCAVENGER INTO FORMATION
7. MONITOR TUBING FOR FLOW AND CASING FOR H2S NOW AS POOH W/ TUBING.

**** PROCEDURE FOR PUMPING H2S SCAVENGER WITHOUT ACID**

PRIOR TO RIG MOVING ON OR AS RIG PULLS ONTO LOCATION. TEST CASING, TUBING AND SEPARATOR FOR H2S. IF FOUND MAKE SURE THAT PLUNGER SYSTEM IS REMOVED (IT IS POSSIBLE TO PUMP AROUND PLUNGERS BUT SOME WILL HAVE A STANDING VALVE IN SEATING NIPPLE).

1. MIX 10-15 GAL H2S SCAVENGER WITH 60-100 BBL 2% KCL IN RIG FLAT TANK.
2. PUMP 25 BBLS MIXTURE DOWN TUBING AND REST DOWN CASING. SHUT WELL IN FOR 2 HOURS.
3. IF WELL HAS PRESSURE AFTER 2 HOURS – RETEST CASING AND TUBING FOR H2S.
4. FLUSH TUBING AND CASING PUSHING H2S SCAVENGER INTO FORMATION.
5. MONITOR TUBING FOR FLOW AND CASING FOR H2S NOW AS POOH W/ TUBING.

** As per APC standard operating procedure, APC foreman will verify ALL volumes pumped and record on APC Volume Report Form

Key Contact information

Completion Engineer

Michael Sollee: 832-859-0515, 720-929-6057

Production Engineer

Kyle Bohannon: 804-512-1985, 435-781-7068

Completion Supervisor Foreman

Jeff Samuels: 435-828-6515, 435-781-7046

Completion Manager

Jeff Dufresne: 720-929-6281, 303-241-8428

Vernal Main Office

435-789-3342

Emergency Contact Information—Call 911

Vernal Regional Hospital Emergency: 435-789-3342

Police: (435) 789-5835

Fire: 435-789-4222

Name Bonanza 1023-6N1CS
Perforation and CBP Summary

Stage	Zones	Perforations		SPF	Holes		Fracture Coverage		
		Top, ft	Bottom, ft						
1	WASATCH		NO PERFS				6265	to	6281.5
	WASATCH	6288	6289	3	3		6284	to	6295
	WASATCH	6327	6328	3	3		6325.5	to	6330.5
	WASATCH	6373	6375	3	6		6368	to	6384.5
	WASATCH	6497	6498	3	3		6496	to	6499.5
	WASATCH	6536	6538	3	6		6523.5	to	6541
	WASATCH								
	# of Perfs/stage				21		CBP DEPTH	6,238	
2	WASATCH	6014	6016	4	8		5995	to	6019.5
	WASATCH	6048	6050	4	8		6043	to	6057.5
	WASATCH	6186	6188	4	8		6185	to	6188
	WASATCH								
	WASATCH								
	WASATCH								
	WASATCH								
	WASATCH								
	# of Perfs/stage				24		CBP DEPTH	5,725	
3	WASATCH	5498	5500	4	8		5494	to	5504.5
	WASATCH	5622	5625	4	12		5606.5	to	5638.5
	WASATCH								
	WASATCH								
	WASATCH								
	WASATCH								
	WASATCH								
	WASATCH								
	# of Perfs/stage				20		CBP DEPTH	5,448	
	Totals				65				

	MD	TVD	INC		MD	TVD	INC	
	0.00	0.00	0.00		4860.00	4630.35	25.13	
	236.00	236.00	0.44		4950.00	4711.37	26.50	
	332.00	332.00	0.31		5041.00	4793.18	25.44	
	459.00	458.99	0.13		5132.00	4875.84	24.00	
	650.00	649.99	0.31		5222.00	4958.45	22.75	
	841.00	840.99	0.44		5313.00	5042.79	21.38	
	1032.00	1031.98	0.44		5404.00	5128.00	19.69	
	1223.00	1222.98	0.25		5494.00	5213.17	18.00	
	1319.00	1318.98	0.19		5585.00	5299.64	18.31	
	1415.00	1414.98	0.38		5676.00	5386.34	17.06	
	1606.00	1605.97	1.00		5766.00	5472.74	15.44	
	1702.00	1701.96	0.44		5857.00	5560.74	14.06	
	1828.00	1827.96	0.13		5948.00	5649.18	13.19	
	1892.00	1891.96	0.13		6039.00	5738.13	11.19	
	1959.00	1958.95	0.56		6129.00	5826.66	9.50	
	2050.00	2049.94	2.13		6220.00	5916.62	7.81	
	2140.00	2139.73	5.44		6310.00	6006.04	5.13	
	2231.00	2230.01	8.81		6401.00	6096.82	2.75	
	2322.00	2319.48	12.19		6492.00	6187.69	3.25	
	2412.00	2407.18	13.75		6582.00	6277.63	0.81	
	2503.00	2495.34	15.00		6673.00	6368.63	0.50	
	2594.00	2582.71	17.50		6763.00	6458.60	2.50	
	2685.00	2668.47	21.50		6854.00	6549.53	2.06	
	2775.00	2751.44	24.06		6945.00	6640.48	1.75	
	2866.00	2834.38	24.57		7035.00	6730.45	1.38	
	2957.00	2916.79	25.63		7126.00	6821.42	1.63	
	3047.00	2998.16	24.94		7217.00	6912.40	0.75	
	3138.00	3080.49	25.50		7307.00	7002.39	0.94	
	3229.00	3162.92	24.63		7398.00	7093.37	1.30	
	3319.00	3244.65	24.88		7489.00	7184.35	1.19	
	3410.00	3326.95	25.63		7579.00	7274.33	1.06	
	3501.00	3409.45	24.31		7670.00	7365.32	0.94	
	3591.00	3491.79	23.31		7761.00	7456.31	0.63	
	3682.00	3575.36	23.31		7852.00	7547.31	0.13	
	3772.00	3657.91	23.65		7942.00	7637.31	0.31	
	3863.00	3741.29	23.56		8033.00	7728.31	0.19	
	3953.00	3822.75	26.75		8124.00	7819.31	0.06	
	4044.00	3903.63	27.81		8215.00	7910.31	0.63	
	4135.00	3984.64	26.38		8305.00	8000.30	0.81	
	4225.00	4065.61	25.38		8396.00	8091.29	0.63	
	4316.00	4147.57	26.13		8487.00	8182.29	0.63	
	4407.00	4228.35	28.69		8577.00	8272.28	0.63	
	4497.00	4307.28	28.75		8668.00	8363.26	1.56	
	4588.00	4387.36	27.94		8750.00	8445.23	1.64	
	4678.00	4467.31	26.75		8800.00	8495.21	1.64	
	4769.00	4548.55	26.81					



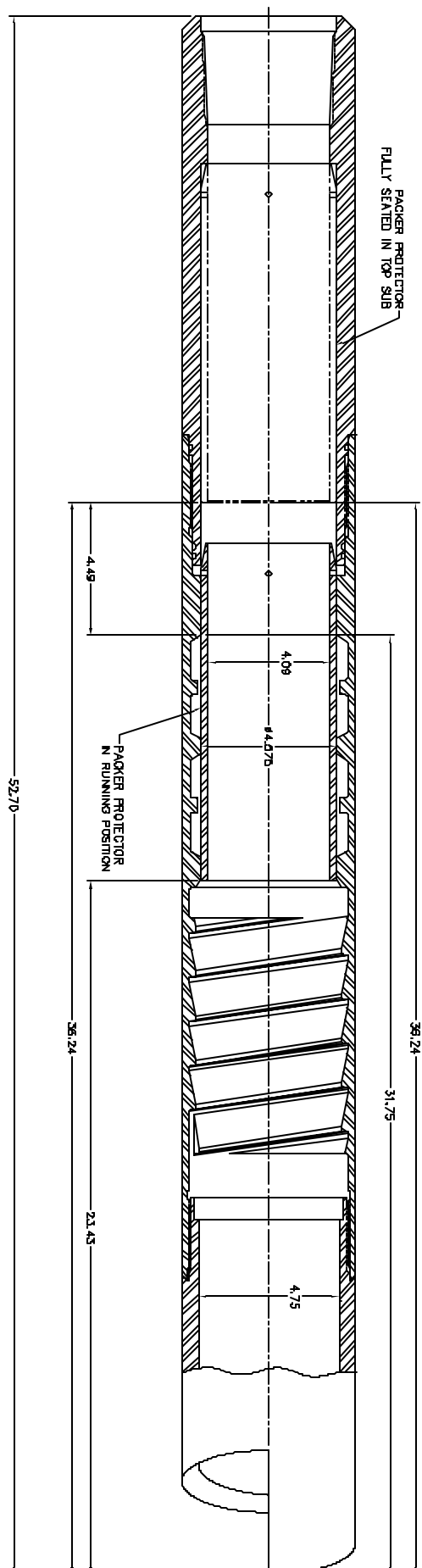
Logan High Pressure Casing Patches Assembly Procedure

All parts should be thoroughly greased before being assembled.

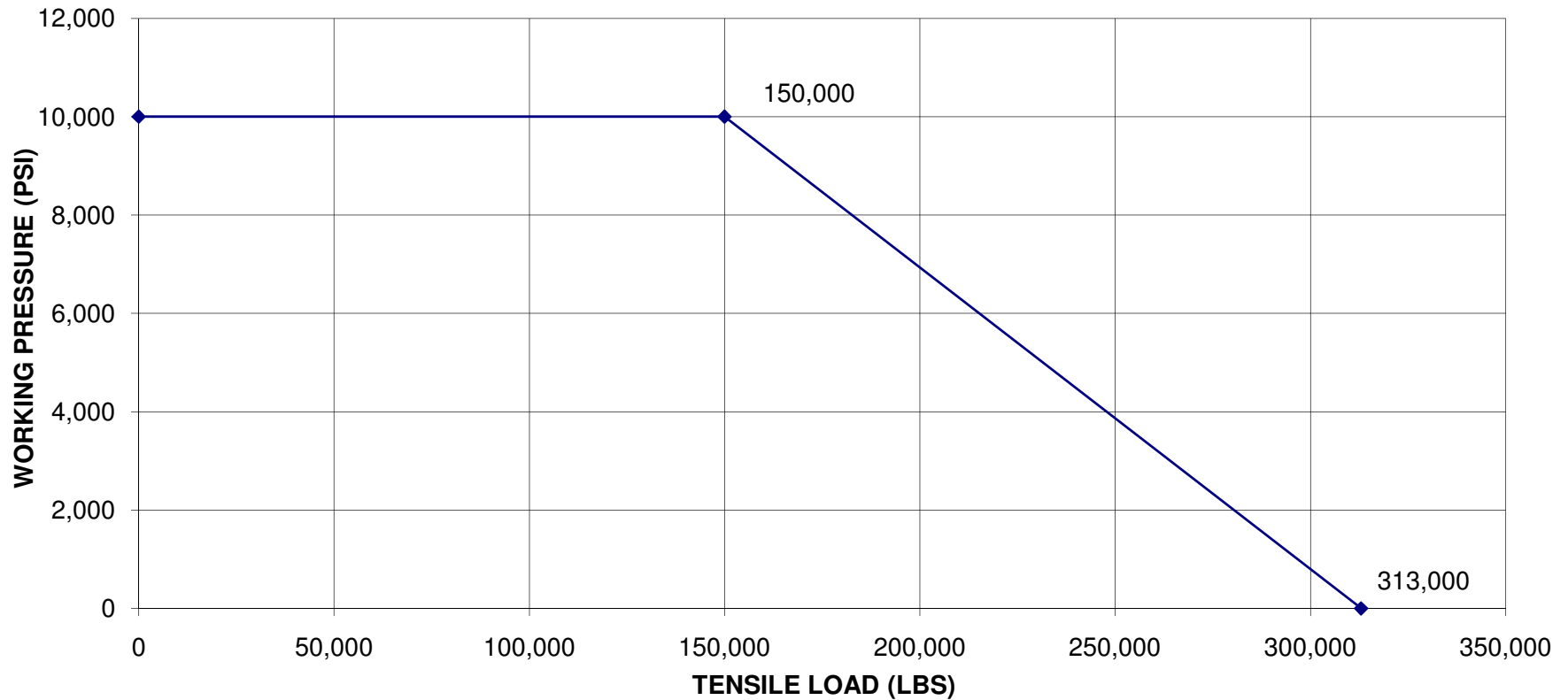
1. Install all four Logan Type "L" Packers in the spaces provided in the Casing Patch Bowl. Refer to diagram provided for proper installation.
2. Install Packer Protector from the Basket Grapple end of the Bowl. The beveled end of the Packer Protector goes in first. Carefully push the Packer Protector through the four Type "L" Packers.
3. Align Shear Pin Holes in Packer Protector so that the holes have just passed into the counter bore at the Top Sub end, refer to diagram. The Packer Protector is provided with four Shear Pin Holes. Use only two holes, 180 degrees apart and install the pins.
4. Screw the Basket Grapple in from the lower end of the Bowl, using left-hand rotation. The Tang Slot in the Basket Grapple must land in line with the slot in the Bowl.
5. Insert the Basket Grapple Control into the end of the Bowl. Align Tang on the Basket Grapple Control with the Tang Slot of the Bowl and Basket Grapple. This secures the Bowl and the Basket Grapple together.
6. Install the Cutlipped Guide into the lower end of the Bowl.
7. Install O-Rings on the two five-foot long Extensions. Screw the first Extension into the top end of the Bowl. Screw the second Extension into the top end of the first Extension.
8. Install O-Ring on Top Sub. Screw Top Sub into top end of second Extension.

Follow recommended Make-Up Torque as provided in chart.

510L-005-001 4-1/2" LOGAN HP CASING PATCH



**STRENGTH DATA FOR LOGAN 5.88" OD "L" TYPE CSG PATCH
4-1/2 CASING, 10K PSI MAX WP 125K YIELD MAT'L
LOGAN ASSEMBLY NO. 510L-005 -000**



COLLAPSE PRESSURE:
11,222 PSI @ 0 TENSILE
8,634 PSI @ 220K TENSILE

Tensile Strength @ Yield:
Tensile Strength w/ 0 Int. Press.= 472,791lbs.
Tensile Strength w/ 10K Int. Press.= 313,748lbs.

DATA BY SLS 11/16/2009

RECEIVED Apr. 04, 2011

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 38419
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: BONANZA 1023-6N1CS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1550 FSL 0739 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 06 Township: 10.0S Range: 23.0E Meridian: S		9. API NUMBER: 43047504540000
9. FIELD and POOL or WILDCAT: NATURAL BUTTES		COUNTY: UINTAH
STATE: UTAH		
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 7/6/2011	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION	
<input type="checkbox"/> DRILLING REPORT Report Date:	OTHER: <input style="width: 100px;" type="text" value="Wellhead Repair"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. THE OPERATOR HAS CONCLUDED WELLHEAD/CASING REPAIRS ON THE SUBJECT WELL LOCATION. PLEASE SEE THE ATTACHED CHRONOLOGICAL HISTORY FOR DETAILS OF THE OPERATIONS.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY		
NAME (PLEASE PRINT) Gina Becker		PHONE NUMBER 720 929-6086
SIGNATURE N/A		TITLE Regulatory Analyst II
DATE 7/6/2011		

US ROCKIES REGION

Operation Summary Report

Well: BONANZA 1023-6N1CS YELLOW				Spud Conductor: 4/7/2010			Spud Date: 4/12/2010			
Project: UTAH-UINTAH				Site: BONANZA 1023-6L PAD				Rig Name No: SWABBCO 6/6		
Event: WELL WORK EXPENSE				Start Date: 6/21/2011				End Date: 6/22/2011		
Active Datum: RKB @5,158.00ft (above Mean Sea Leve				UWI: NW/SW/0/10/S/23/E/6/0/0/6/PM/S/1,550.00/W/0/739.00/0/0						
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation		
6/21/2011	7:00 - 7:15	0.25	WO/REP	48		P		JSA= WELL CONTROL		
	7:15 - 17:30	10.25	WO/REP	30		P		FWP= 150 PSI CONTROL WELL W/ TMAC ND W/H NU BOPS UNLAND WELL LD HNGR RU SCAN TECH POOH SCANING TUBING 266 JNTS 210 GOOD YB, 56 JNTS BAD RB, LD BHA RD SCANNERS RU W/L RIH W/ GAUGE RING TO 6650' POOH PU 10K CBP RIH SET @ 6630' DUMP BAIL 4 SKS CEM ON CBP FILL HOLE W/ TMAC TEST TO 1000# SIW PREP TO REPAIR W/H IN AM SDFN		
6/22/2011	7:00 - 7:15	0.25	WO/REP	48		P		JSA= TONG SAFETY		
	7:15 - 17:00	9.75	WO/REP	30		P		0 PSI ON WELL ND BOPS ND W/H PU INT CUTTER RIH CUT CSG BELOW HNGR @ PUP PU OVERSHOT RIH RU W/L & TONGS APPLY LH TORQUE SET OFF STRING SHOT B/O PUP POOH PU 10' PUP RIH THREAD ONTO CSG TORQUE ALL TO 7000 FT/# PULL 90000# ON CSG RU TESTERS TEST TO 3500# SET SLIPS NU WELLHEAD RD RIG MOVE TO 6N1AS RU RIG		

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9			
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 38419			
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10. FIELD and POOL or WILDCAT: NATURAL BUTTES		COUNTY: UINTAH			
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		STATE: UTAH			
TYPE OF SUBMISSION <input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 7/12/2011 <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	TYPE OF ACTION <table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input checked="" type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/> </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input checked="" type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input checked="" type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>			
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. THE OPERATOR HAS PERFORMED THE RECOMPLETION ON THE SUBJECT WELL. THE OPERATOR HAS RECOMPLETED THE WASATCH FORMATION. THE OPERATOR HAS COMMINGLED THE NEWLY WASATCH FORMATION WITH THE EXISTING MESAVERDE FORMATION. THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 07/12/2011 AT 9:15 AM. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.					
NAME (PLEASE PRINT) Sheila Wopsock		PHONE NUMBER 435 781-7024			
SIGNATURE N/A		TITLE Regulatory Analyst			
DATE 7/12/2011		FOR RECORD ONLY			

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other			5. Lease Serial No. UTU38419		
b. Type of Completion <input type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input checked="" type="checkbox"/> Diff. Resvr. Other _____			6. If Indian, Allottee or Tribe Name		
2. Name of Operator KERR MCGEE OIL & GAS ONSHORE; Mail: gina.becker@anadarko.com			7. Unit or CA Agreement Name and No.		
3. Address POBOX 173779 DENVER, CO 80217			8. Lease Name and Well No. BONANZA 1023-6N1CS		
3a. Phone No. (include area code) Ph: 720-929-6086			9. API Well No. 43-047-50454		
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface NWSW 1550FSL 739FWL 39.974950 N Lat, 109.375500 W Lon At top prod interval reported below SESW 962FSL 2140FWL At total depth SESW 978FSL 2153FWL			10. Field and Pool, or Exploratory NATURAL BUTTES		
14. Date Spudded 04/07/2010			11. Sec., T., R., M., or Block and Survey or Area Sec 6 T10S R23E Mer SLB		
15. Date T.D. Reached 05/23/2010			12. County or Parish UINTAH		
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 07/12/2011			13. State UT		
17. Elevations (DF, KB, RT, GL)* 5144 GL					
18. Total Depth: MD 8800 TVD 8495			19. Plug Back T.D.: MD 8750 TVD 8445		
20. Depth Bridge Plug Set: MD TVD					
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) GR/CBL-BHP-HDIL/ZDL/CNCR			22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Directional Survey? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis)		

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
20.000	14.000 STL	36.7		40		28			
11.000	8.625 IJ-55	28.0		1919		425		0	
7.875	4.500 I-80	11.6		8789		1202		2000	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.375	8430							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WASATCH	5498	6538	5498 TO 6538	0.360	65	OPEN
B) USMVD						
C)						
D)						

26. Perforation Record

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
5498 TO 6538	PUMP 2,522 BBLs SLICK H2O 59,522 LBS SAND

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
07/12/2011	07/29/2011	24	→	0.0	1866.0	85.0			FLows FROM WELL
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
20/64	SI 166	744.0	→	0	1866	85		PGW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
	SI		→						

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #116078 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED

DIV OF OIL, GAS & MINING

RECEIVED
AUG 29 2011

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

29. Disposition of Gas(*Sold, used for fuel, vented, etc.*)
SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
GREEN RIVER BIRD'S NEST MAHOGANY WASATCH MESAVERDE	1116 1377 1738 4313 6542	6542 8800			

32. Additional remarks (include plugging procedure):

Attached is the chronological recompletion history and perforation report.

33. Circle enclosed attachments:

- | | | | |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.) | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis | 7 Other: | |

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

**Electronic Submission #116078 Verified by the BLM Well Information System.
For KERR MCGEE OIL & GAS ONSHORE,L, sent to the Vernal**

Name (*please print*) GINA T. BECKER

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 08/24/2011

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

US ROCKIES REGION

Operation Summary Report

Well: BONANZA 1023-6N1CS BLUE		Spud Conductor: 4/7/2010	Spud Date: 4/12/2010
Project: UTAH-UINTAH		Site: BONANZA 1023-6L PAD	Rig Name No: MILES 2/2
Event: RECOMPL/RESEREVEADD		Start Date: 6/30/2011	End Date: 7/11/2011
Active Datum: RKB @5,158.00ft (above Mean Sea Level)		UWI: NW/SW/0/10/S/23/E/6/0/0/6/PM/S/1,550.00/W/0/739.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
6/30/2011	7:00 - 15:00	8.00	COMP	33	C	P		LOCK OPEN & FILL SURFACE CSG. PSI TEST CSG & FRAC VALVES. PSI TEST T/ 1000 PSI. HOLD FOR 15 MIN. LOST 6 PSI. PSI TEST T/ 3500 PSI. HOLD FOR 15 MIN. LOST 19 PSI. 1ST TEST T/ 6200 PSI. HOLD FOR 30 MIN. LOST 50 PSI. GOOD TEST. BLEED OFF PSI. SWI. MOVE T/ NEXT WELL.
7/1/2011	7:00 - 18:00	11.00	COMP	37	B	P		PERF STG 1)PU 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH PERF AS PER STG 1 PERF DESIGN. POOH. SWIFN.
7/2/2011	14:30 - 18:00	3.50	COMP	36	B	P		FRAC STG 1)WHP 155 PSI, BRK 2100 PSI @ 4.1 BPM. ISIP 1198 PSI, FG .63. PUMPED 94 BBLS OF PAD. HAD TO SHUT DOWN TO GET THE BIO PUMP GOING. PUMP 100 BBLS @ 51.6 BPM @ 4763 PSI = 86% HOLES OPEN. ISIP 1794 PSI, FG .72, NPI 596 PSI. MP 5741 PSI, MR 52.5 BPM, AP 4437 PSI, AR 51.4 BPM, PMP 948 BBLS SW & 18,514 LBS OF 30/50 SND & 2489 LBS OF 20/40 RESIN SND. TOTAL PROP 21,003 LBS. SWI, X-OVER FOR WL. PERF STG 2)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 6238' P/U PERF AS PER STG 2 PERF DESIGN. POOH, X-OVER FOR FRAC CREW. FRAC STG 2)WHP 41 PSI, BRK 1888 PSI @ 3.9 BPM. ISIP 1377 PSI, FG .66. PUMP 100 BBLS @ 47.9 BPM @ 4688 PSI = 72% HOLES OPEN. ISIP 1635 PSI, FG .71, NPI 258 PSI. MP 4978 PSI, MR 50.6 BPM, AP 4390 PSI, AR 49.8 BPM, PMP 627 BBLS SW & 12,137 LBS OF 30/50 SND & 2576 LBS OF 20/40 RESIN SND. TOTAL PROP 14,713 LBS. SWI. SDFWE.
7/5/2011	7:00 - 7:15	0.25	COMP	48		P		HSM.

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6N1CS BLUE		Spud Conductor: 4/7/2010		Spud Date: 4/12/2010	
Project: UTAH-UINTAH		Site: BONANZA 1023-6L PAD			Rig Name No: MILES 2/2
Event: RECOMPL/RESEREVEADD		Start Date: 6/30/2011		End Date: 7/11/2011	
Active Datum: RKB @5,158.00ft (above Mean Sea Level)		UWI: NW/SW/0/10/S/23/E/6/0/0/6/PM/S/1,550.00/W/0/739.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:15 - 7:15	0.00	COMP	36	E	P		PERF STG #3] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=5,725', PERF WASATCH USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW FRAC STG #3] WHP=322#, BRK DN PERFS=1,950#, @=2.7 BPM, INJ RT=49.8, INJ PSI=4,810#, ISIP=549#, FG=54, PUMP'D 947 BBLS SLK WTR W/ 21,168# 30/50 MESH W/ 2,638# RESIN COAT IN TAIL W/ 23,806# TOTAL PROP PUMP'D, ISIP=1,543#, FG=72, AR=49.5, AP=4,392#, MR=50.4, MP=5,115#, NPI=944#, 15/20 CALC PERFS OPEN 75%. X OVER TO WIRE LINE P/U RIH W/ HALIBURTON 8K CBP SET FOR TOP KILL @=5,448' 2,522 TOTAL BBLS 59.522# TOTAL SAND 324 GALS SCALE INHIB 56 GALS BIO TRIPPING TBG
7/8/2011	7:00 - 7:30	0.50	COMP	48		P		MIRU, NDWH, NU BOP'S, TEST BOP'S, PU
	7:30 - 17:00	9.50	COMP	44		P		SLIDING SLEEVE,BIT, BIT SUB, TIH WITH 172 JTS TBG, TAG CBP# 1, MILL OUT PLUGS, CLEAN OUT TO 6570', SWIFWE PLUG# 1 5446' 10' SAND 7 MIN 0# KICK PLUG# 2 5725' 50' SAND 10 MIN 0# KICK PLUG# 3 6238' 40' SAND 8 MIN 0# KICK
7/11/2011	7:00 - 7:30	0.50	COMP	48		P		LANDING TBG
	7:30 - 10:30	3.00	COMP	44		P		FLOW BACK CSG, 1500#, WELL CAME ON, POOH 12 JTS TO 6215.69', LAND TBG, ND BOP'ES, NUWH, RU DELSCO, PULL SLEEVE, SET PLUG RTP, RDMO TO BON 1023-6N4BS TBG 196 JTS 6197.76' KB 15.00' SLIDING SLEEVE 2.10' HANGER .83' EOT 6215.69' WTR PUMPED 2525 BBLS TWR 100 BBLS LTR 2425 BBLS
7/12/2011	7:00 -			33	A			7 AM FLBK REPORT: CP 500#, TP 100#, OPEN/64" CK, 5 BWPH, TRACE SAND, - GAS TTL BBLS RECOVERED: 285 BBLS LEFT TO RECOVER: 2240
	9:15 - 9:15	0.00	PROD	50				WELL TURNED TO SALES @ 0915 HR ON 7/12/11 - 500 MCFD, 120 BWPD, CP 450#, FTP 300#, CK 20/64"
7/13/2011	7:00 -			33	A			7 AM FLBK REPORT: CP 600#, TP 400#, 20/64" CK, 5 BWPH, TRACE SAND, - GAS TTL BBLS RECOVERED: 405 BBLS LEFT TO RECOVER: 2120
7/14/2011	7:00 -			33	A			7 AM FLBK REPORT: CP 550#, TP 400#, 20/64" CK, 5 BWPH, TRACE SAND, - GAS TTL BBLS RECOVERED: 525 BBLS LEFT TO RECOVER: 2000

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6N1CS BLUE		Spud Conductor: 4/7/2010		Spud Date: 4/12/2010	
Project: UTAH-UINTAH		Site: BONANZA 1023-6L PAD			Rig Name No: MILES 2/2
Event: RECOMPL/RESEREVEADD		Start Date: 6/30/2011		End Date: 7/11/2011	
Active Datum: RKB @5,158.00ft (above Mean Sea Level)		UWI: NW/SW/0/10/S/23/E/6/0/0/6/PM/S/1,550.00/W/0/739.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
7/15/2011	7:00 -			33	A			7 AM FLBK REPORT: CP 600#, TP 400#, 20/64" CK, 5 BWPH, TRACE SAND, - GAS TTL BBLS RECOVERED: 645 BBLS LEFT TO RECOVER: 1880 JSA, SAFTY MEETING
7/25/2011	7:00 - 7:30	0.50	COMP	48		P		MIRU, RU DELSCO, PULL PLUG, RUN SLIDING SLEEVE, NDWH, NU BOP'S, TIH 11 JTS, TAG CEMENT TOP @ 6539', BREAK CIRC IN 20 MINS W/ FOAM UNIT, DRILL CEMENT, CBP, 300# KICK, TIH 278 JTS TAG PBTD @8785, BREAK CIRC WITH FOAM UNIT, POOH LAY DWN 15 JTS TO 8430', ND BOP'S, NU .
	7:30 - 19:00	11.50	COMP	44		P		
7/29/2011	7:00 -			50				JTS 266 JTS L-80 8412.90' KB 15.00' SLIDING SLEEVE 2.10 EOT 8430' PBTD 8787 BTM PERF 8766'
								WELL IP'D ON 7/29/11- 1866 MCFD, 0 BOPD, 85 BWPD, CP 744#, FTP 166#, CK 20/64", LP 71#, 24 HRS

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well Information

Well	BONANZA 1023-6N1CS BLUE		
Common Name	BONANZA 1023-6N1CS		
Well Name	BONANZA 1023-6N1CS	Wellbore No.	OH
Report No.	1	Report Date	6/22/2011
Project	UTAH-UINTAH	Site	BONANZA 1023-6L PAD
Rig Name/No.		Event	RECOMPL/RESEREVEADD
Start Date	6/22/2011	End Date	7/11/2011
Spud Date	4/12/2010	Active Datum	RKB @5,158.00ft (above Mean Sea Level)
UWI	NW/SW/0/10/S/23/E/6/0/0/6/PM/S/1,550.00/W/0/739.00/0/0		

1.3 General

Contractor		Job Method	PERFORATE	Supervisor	
Perforated Assembly	PRODUCTION CASING	Conveyed Method	WIRELINE		

1.4 Initial Conditions

Fluid Type		Fluid Density		Gross Interval	5,498.0 (ft)-6,538.0 (ft)	Start Date/Time	6/28/2011 12:00AM
Surface Press		Estimate Res Press		No. of Intervals	10	End Date/Time	6/28/2011 12:00AM
TVD Fluid Top		Fluid Head		Total Shots	65	Net Perforation Interval	18.00 (ft)
Hydrostatic Press		Press Difference		Avg Shot Density	3.61 (shot/ft)	Final Surface Pressure	
Balance Cond	NEUTRAL					Final Press Date	

1.5 Summary

2 Intervals

2.1 Perforated Interval

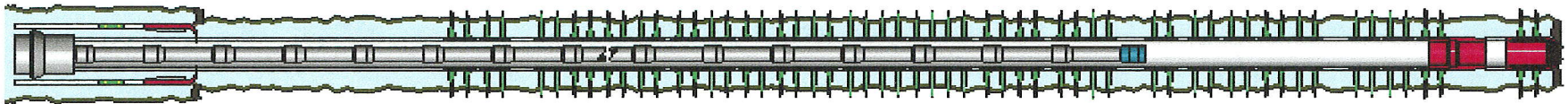
Date	Formation/ Reservoir	CCL@ (ft)	CCL-T S (ft)	MD Top (ft)	MD Base (ft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
12:00AM	WASATCH/			5,498.0	5,500.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (ft)	CCL-T S (ft)	MD Top (ft)	MD Base (ft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type./Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc./Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
12:00AM	WASATCH/			5,622.0	5,625.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	WASATCH/			6,014.0	6,016.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	WASATCH/			6,048.0	6,050.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	WASATCH/			6,186.0	6,188.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	WASATCH/			6,288.0	6,289.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	WASATCH/			6,327.0	6,328.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	WASATCH/			6,373.0	6,375.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	WASATCH/			6,497.0	6,498.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	WASATCH/			6,536.0	6,538.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

3 Plots

3.1 Wellbore Schematic



STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: KERR MCGEE OIL & GAS ONSHORE LP Operator Account Number: N 2995
Address: P.O. Box 173779
city DENVER
state CO zip 80217 Phone Number: (720) 929-6029

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
See Atchmt	See Atchmt						
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
	99999	18519				5/11/2012	
Comments: Please see attachment with list of Wells in the Ponderosa Unit. <u>WSMVD</u> 5/30/2012							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
Comments:							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
Comments:							

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

Cara Mahler

Name (Please Print)

Signature

REGULATORY ANALYST

Title

5/21/2012

Date

RECEIVED

MAY 21 2012

(5/2000)

Div. of Oil, Gas & Mining

well_name	sec	tpw	rng	api	entity		lease	well	stat	qtr_qtr	bhl	surf	zone	a_stat	l_num	op_no
SOUTHMAN CANYON 31-3	31	090S	230E	4304734726	13717		1	GW	P	SENW		1	WSMVD	P	U-33433	N2995
SOUTHMAN CANYON 31-4	31	090S	230E	4304734727	13742		1	GW	S	SESW		1	WSMVD	S	UTU-33433	N2995
SOUTHMAN CYN 31-2X (RIG SKID)	31	090S	230E	4304734898	13755		1	GW	P	NWNW		1	WSMVD	P	U-33433	N2995
SOUTHMAN CYN 923-31J	31	090S	230E	4304735149	13994		1	GW	P	NWSE		1	MVRD	P	U-33433	N2995
SOUTHMAN CYN 923-31B	31	090S	230E	4304735150	13953		1	GW	P	NWNE		1	MVRD	P	U-33433	N2995
SOUTHMAN CYN 923-31P	31	090S	230E	4304735288	14037		1	GW	P	SESE		1	WSMVD	P	UTU-33433	N2995
SOUTHMAN CYN 923-31H	31	090S	230E	4304735336	14157		1	GW	P	SENE		1	WSMVD	P	U-33433	N2995
SOUTHMAN CYN 923-31O	31	090S	230E	4304737205	16827		1	GW	P	SWSE		1	MVRD	P	UTU-33433	N2995
SOUTHMAN CYN 923-31K	31	090S	230E	4304737206	16503		1	GW	P	NESW		1	WSMVD	P	UTU-33433	N2995
SOUTHMAN CYN 923-31G	31	090S	230E	4304737208	16313		1	GW	P	SWNE		1	WSMVD	P	UTU-33433	N2995
SOUTHMAN CYN 923-31E	31	090S	230E	4304737209	16521		1	GW	P	SWNW		1	WSMVD	P	UTU-33433	N2995
SOUTHMAN CYN 923-31A	31	090S	230E	4304737210	16472		1	GW	P	NENE		1	WSMVD	P	UTU-33433	N2995
SOUTHMAN CYN 923-31C	31	090S	230E	4304737227	16522		1	GW	P	NENW		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-1G	01	100S	230E	4304735512	14458		1	GW	P	SWNE		1	WSMVD	P	U-40736	N2995
BONANZA 1023-1A	01	100S	230E	4304735717	14526		1	GW	P	NENE		1	WSMVD	P	U-40736	N2995
BONANZA 1023-1E	01	100S	230E	4304735745	14524		1	GW	P	SWNW		1	WSMVD	P	U-40736	N2995
BONANZA 1023-1C	01	100S	230E	4304735754	14684		1	GW	P	NENW		1	MVRD	P	U-40736	N2995
BONANZA 1023-1K	01	100S	230E	4304735755	15403		1	GW	P	NESW		1	MVRD	P	U-38423	N2995
BONANZA 1023-1F	01	100S	230E	4304737379	16872		1	GW	P	SENW		1	MVRD	P	UTU-40736	N2995
BONANZA 1023-1B	01	100S	230E	4304737380	16733		1	GW	P	NWNE		1	MVRD	P	UTU-40736	N2995
BONANZA 1023-1D	01	100S	230E	4304737381	16873		1	GW	P	NWNW		1	MVRD	P	UTU-40736	N2995
BONANZA 1023-1H	01	100S	230E	4304737430	16901		1	GW	P	SENE		1	MVRD	P	UTU-40736	N2995
BONANZA 1023-1L	01	100S	230E	4304738300	16735		1	GW	P	NWSW		1	MVRD	P	UTU-38423	N2995
BONANZA 1023-1J	01	100S	230E	4304738302	16871		1	GW	P	NWSE		1	MVRD	P	UTU-40736	N2995
BONANZA 1023-1I	01	100S	230E	4304738810	16750		1	GW	P	NESE		1	MVRD	P	UTU-40736	N2995
BONANZA 1023-2E	02	100S	230E	4304735345	14085		3	GW	P	SWNW		3	WSMVD	P	ML-47062	N2995
BONANZA 1023-2C	02	100S	230E	4304735346	14084		3	GW	P	NENW		3	WSMVD	P	ML-47062	N2995
BONANZA 1023-2A	02	100S	230E	4304735347	14068		3	GW	P	NENE		3	MVRD	P	ML-47062	N2995
BONANZA 1023-2G	02	100S	230E	4304735661	14291		3	GW	P	SWNE		3	WSMVD	P	ML-47062	N2995
BONANZA 1023-2O	02	100S	230E	4304735662	14289		3	GW	P	SWSE		3	WSMVD	P	ML-47062	N2995
BONANZA 1023-2I	02	100S	230E	4304735663	14290		3	GW	S	NESE		3	WSMVD	S	ML-47062	N2995
BONANZA 1023-2MX	02	100S	230E	4304736092	14730		3	GW	P	SWSW		3	WSMVD	P	ML-47062	N2995
BONANZA 1023-2H	02	100S	230E	4304737093	16004		3	GW	P	SENE		3	WSMVD	P	ML-47062	N2995
BONANZA 1023-2D	02	100S	230E	4304737094	15460		3	GW	P	NWNW		3	WSMVD	P	ML-47062	N2995
BONANZA 1023-2B	02	100S	230E	4304737095	15783		3	GW	P	NWNE		3	MVRD	P	ML-47062	N2995
BONANZA 1023-2P	02	100S	230E	4304737223	15970		3	GW	P	SESE		3	WSMVD	P	ML-47062	N2995
BONANZA 1023-2N	02	100S	230E	4304737224	15887		3	GW	P	SESW		3	MVRD	P	ML-47062	N2995
BONANZA 1023-2L	02	100S	230E	4304737225	15833		3	GW	P	NWSW		3	WSMVD	P	ML-47062	N2995
BONANZA 1023-2F	02	100S	230E	4304737226	15386		3	GW	P	SENW		3	WSMVD	P	ML-47062	N2995
BONANZA 1023-2D-4	02	100S	230E	4304738761	16033		3	GW	P	NWNW		3	WSMVD	P	ML-47062	N2995
BONANZA 1023-2O-1	02	100S	230E	4304738762	16013		3	GW	P	SWSE		3	WSMVD	P	ML-47062	N2995
BONANZA 1023-2H3CS	02	100S	230E	4304750344	17426		3	GW	P	NWNE	D	3	MVRD	P	ML 47062	N2995
BONANZA 1023-2G3BS	02	100S	230E	4304750345	17428		3	GW	P	NWNE	D	3	MVRD	P	ML 47062	N2995
BONANZA 1023-2G2CS	02	100S	230E	4304750346	17429		3	GW	P	NWNE	D	3	MVRD	P	ML 47062	N2995
BONANZA 1023-2G1BS	02	100S	230E	4304750347	17427		3	GW	P	NWNE	D	3	MVRD	P	ML 47062	N2995

BONANZA 1023-2M1S	02	100S	230E	4304750379	17443		3	GW	P	SENW	D	3	MVRD	P	ML 47062	N2995
BONANZA 1023-2L2S	02	100S	230E	4304750380	17444		3	GW	P	SENW	D	3	MVRD	P	ML 47062	N2995
BONANZA 1023-2K4S	02	100S	230E	4304750381	17446		3	GW	P	SENW	D	3	MVRD	P	ML 47062	N2995
BONANZA 1023-2K1S	02	100S	230E	4304750382	17445		3	GW	P	SENW	D	3	WSMVD	P	ML 47062	N2995
BONANZA 4-6 ✱	04	100S	230E	4304734751	13841		1	GW	P	NESW		1	MNCS	P	UTU-33433	N2995
BONANZA 1023-4A	04	100S	230E	4304735360	14261		1	GW	P	NENE		1	WSMVD	P	U-33433	N2995
BONANZA 1023-4E	04	100S	230E	4304735392	14155		1	GW	P	SWNW		1	WSMVD	P	U-33433	N2995
BONANZA 1023-4C	04	100S	230E	4304735437	14252		1	GW	P	NENW		1	WSMVD	P	U-33433	N2995
BONANZA 1023-4M	04	100S	230E	4304735629	14930		1	GW	P	SWSW		1	WSMVD	P	U-33433	N2995
BONANZA 1023-4O	04	100S	230E	4304735688	15111		1	GW	P	SWSE		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-4I	04	100S	230E	4304735689	14446		1	GW	P	NESE		1	MVRD	P	UTU-33433	N2995
BONANZA 1023-4G	04	100S	230E	4304735746	14445		1	GW	P	SWNE		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-4D	04	100S	230E	4304737315	16352		1	GW	P	NWNW		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-4H	04	100S	230E	4304737317	16318		1	GW	P	SENE		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-4B	04	100S	230E	4304737328	16351		1	GW	P	NWNE		1	MVRD	P	UTU-33433	N2995
BONANZA 1023-4L	04	100S	230E	4304738211	16393		1	GW	P	NWSW		1	MVRD	P	UTU-33433	N2995
BONANZA 1023-4P	04	100S	230E	4304738212	16442		1	GW	P	SESE		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-4N	04	100S	230E	4304738303	16395		1	GW	P	SESW		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-4FX (RIGSKID)	04	100S	230E	4304739918	16356		1	GW	P	SENW		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-5O	05	100S	230E	4304735438	14297		1	GW	P	SWSE		1	WSMVD	P	U-33433	N2995
BONANZA 1023-5AX (RIGSKID)	05	100S	230E	4304735809	14243		1	GW	P	NENE		1	WSMVD	P	U-33433	N2995
BONANZA 1023-5C	05	100S	230E	4304736176	14729		1	GW	P	NENW		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-5G	05	100S	230E	4304736177	14700		1	GW	P	SWNE		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-5M	05	100S	230E	4304736178	14699		1	GW	P	SWSW		1	WSMVD	P	UTU-73450	N2995
BONANZA 1023-5K	05	100S	230E	4304736741	15922		1	GW	P	NESW		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-5B	05	100S	230E	4304737318	16904		1	GW	P	NWNE		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-5E	05	100S	230E	4304737319	16824		1	GW	P	SWNW		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-5H	05	100S	230E	4304737320	16793		1	GW	P	SENE		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-5N	05	100S	230E	4304737321	16732		1	GW	P	SESW		1	WSMVD	P	UTU-73450	N2995
BONANZA 1023-5L	05	100S	230E	4304737322	16825		1	GW	P	NWSW		1	MVRD	P	UTU-33433	N2995
BONANZA 1023-5J	05	100S	230E	4304737428	17055		1	GW	P	NWSE		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-5P	05	100S	230E	4304738213	16795		1	GW	P	SESE		1	MVRD	P	UTU-33433	N2995
BONANZA 1023-5N-1	05	100S	230E	4304738911	17060		1	GW	P	SESW		1	WSMVD	P	UTU-73450	N2995
BONANZA 1023-5PS	05	100S	230E	4304750169	17323		1	GW	P	NESE	D	1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-5G2AS	05	100S	230E	4304750486	17459		1	GW	P	SWNE	D	1	MVRD	P	UTU 33433	N2995
BONANZA 1023-5G2CS	05	100S	230E	4304750487	17462		1	GW	P	SWNE	D	1	MVRD	P	UTU 33433	N2995
BONANZA 1023-5G3BS	05	100S	230E	4304750488	17461		1	GW	P	SWNE	D	1	MVRD	P	UTU 33433	N2995
BONANZA 1023-5G3CS	05	100S	230E	4304750489	17460		1	GW	P	SWNE	D	1	MVRD	P	UTU 33433	N2995
BONANZA 1023-5N4AS	05	100S	230E	4304752080	18484		1	GW	DRL	SWSW	D	1	WSMVD	DRL	UTU73450	N2995
BONANZA 1023-8C2DS	05	100S	230E	4304752081	18507		1	GW	DRL	SWSW	D	1	WSMVD	DRL	UTU37355	N2995
BONANZA 6-2	06	100S	230E	4304734843	13796		1	GW	TA	NESW		1	WSMVD	TA	UTU-38419	N2995
BONANZA 1023-6C	06	100S	230E	4304735153	13951		1	GW	P	NENW		1	MVRD	P	U-38419	N2995
BONANZA 1023-6E	06	100S	230E	4304735358	14170		1	GW	P	SWNW		1	MVRD	P	U-38419	N2995
BONANZA 1023-6M	06	100S	230E	4304735359	14233		1	GW	P	SWSW		1	WSMVD	P	U-38419	N2995
BONANZA 1023-6G	06	100S	230E	4304735439	14221		1	GW	P	SWNE		1	WSMVD	P	UTU-38419	N2995
BONANZA 1023-6O	06	100S	230E	4304735630	14425		1	GW	TA	SWSE		1	WSMVD	TA	U-38419	N2995

✱ not moved in unit

BONANZA 1023-6A	06	100S	230E	4304736067	14775		1	GW	P	NENE		1	WSMVD	P	U-33433	N2995
BONANZA 1023-6N	06	100S	230E	4304737211	15672		1	GW	P	SESW		1	WSMVD	P	UTU-38419	N2995
BONANZA 1023-6L	06	100S	230E	4304737212	15673		1	GW	P	NWSW		1	WSMVD	P	UTU-38419	N2995
BONANZA 1023-6J	06	100S	230E	4304737213	15620		1	GW	P	NWSE		1	WSMVD	P	UTU-38419	N2995
BONANZA 1023-6F	06	100S	230E	4304737214	15576		1	GW	TA	SENW		1	WSMVD	TA	UTU-38419	N2995
BONANZA 1023-6P	06	100S	230E	4304737323	16794		1	GW	P	SESE		1	WSMVD	P	UTU-38419	N2995
BONANZA 1023-6H	06	100S	230E	4304737324	16798		1	GW	S	SENE		1	WSMVD	S	UTU-33433	N2995
BONANZA 1023-6D	06	100S	230E	4304737429	17020		1	GW	P	NWNW		1	WSMVD	P	UTU-38419	N2995
BONANZA 1023-6B	06	100S	230E	4304740398	18291		1	GW	P	NWNE		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-6M1BS	06	100S	230E	4304750452	17578		1	GW	P	NWSW	D	1	WSMVD	P	UTU 38419	N2995
BONANZA 1023-6N1AS	06	100S	230E	4304750453	17581		1	GW	P	NWSW	D	1	WSMVD	P	UTU 38419	N2995
BONANZA 1023-6N1CS	06	100S	230E	4304750454	17580		1	GW	P	NWSW	D	1	WSMVD	P	UTU 38419	N2995
BONANZA 1023-6N4BS	06	100S	230E	4304750455	17579		1	GW	P	NWSW	D	1	WSMVD	P	UTU 38419	N2995
BONANZA 1023-6I2S	06	100S	230E	4304750457	17790		1	GW	P	NESE	D	1	WSMVD	P	UTU 38419	N2995
BONANZA 1023-6I4S	06	100S	230E	4304750458	17792		1	GW	P	NESE	D	1	WSMVD	P	UTU 38419	N2995
BONANZA 1023-6J3S	06	100S	230E	4304750459	17791		1	GW	P	NESE	D	1	WSMVD	P	UTU 38419	N2995
BONANZA 1023-6P1S	06	100S	230E	4304750460	17793		1	GW	P	NESE	D	1	WSMVD	P	UTU 38419	N2995
BONANZA 1023-6A2CS	06	100S	230E	4304751430	18292		1	GW	P	NWNE	D	1	WSMVD	P	UTU33433	N2995
BONANZA 1023-6B4BS	06	100S	230E	4304751431	18293		1	GW	P	NWNE	D	1	WSMVD	P	UTU33433	N2995
BONANZA 1023-6B4CS	06	100S	230E	4304751432	18294		1	GW	P	NWNE	D	1	WSMVD	P	UTU33433	N2995
BONANZA 1023-6C4BS	06	100S	230E	4304751449	18318		1	GW	P	NENW	D	1	WSMVD	P	UTU38419	N2995
BONANZA 1023-6D1DS	06	100S	230E	4304751451	18316		1	GW	P	NENW	D	1	WSMVD	P	UTU38419	N2995
FLAT MESA FEDERAL 2-7	07	100S	230E	4304730545	18244		1	GW	S	NENW		1	WSMVD	S	U-38420	N2995
BONANZA 1023-7B	07	100S	230E	4304735172	13943		1	GW	P	NWNE		1	MVRD	P	U-38420	N2995
BONANZA 1023-7L	07	100S	230E	4304735289	14054		1	GW	P	NWSW		1	WSMVD	P	U-38420	N2995
BONANZA 1023-7D	07	100S	230E	4304735393	14171		1	GW	P	NWNW		1	WSMVD	P	U-38420	N2995
BONANZA 1023-7P	07	100S	230E	4304735510	14296		1	GW	P	SESE		1	WSMVD	P	U-38420	N2995
BONANZA 1023-7H	07	100S	230E	4304736742	15921		1	GW	P	SENE		1	WSMVD	P	UTU-38420	N2995
BONANZA 1023-7NX (RIGSKID)	07	100S	230E	4304736932	15923		1	GW	P	SESW		1	WSMVD	P	UTU-38420	N2995
BONANZA 1023-7M	07	100S	230E	4304737215	16715		1	GW	P	SWSW		1	WSMVD	P	UTU-38420	N2995
BONANZA 1023-7K	07	100S	230E	4304737216	16714		1	GW	P	NESW		1	WSMVD	P	UTU-38420	N2995
BONANZA 1023-7E	07	100S	230E	4304737217	16870		1	GW	P	SWNW		1	WSMVD	P	UTU-38420	N2995
BONANZA 1023-7G	07	100S	230E	4304737326	16765		1	GW	P	SWNE		1	WSMVD	P	UTU-38420	N2995
BONANZA 1023-7A	07	100S	230E	4304737327	16796		1	GW	P	NENE		1	WSMVD	P	UTU-38420	N2995
BONANZA 1023-7O	07	100S	230E	4304738304	16713		1	GW	P	SWSE		1	MVRD	P	UTU-38420	N2995
BONANZA 1023-7B-3	07	100S	230E	4304738912	17016		1	GW	P	NWNE		1	WSMVD	P	UTU-38420	N2995
BONANZA 1023-07JT	07	100S	230E	4304739390	16869		1	GW	P	NWSE		1	WSMVD	P	UTU-38420	N2995
BONANZA 1023-7J2AS	07	100S	230E	4304750474	17494		1	GW	P	NWSE	D	1	WSMVD	P	UTU 38420	N2995
BONANZA 1023-7J2DS	07	100S	230E	4304750475	17495		1	GW	P	NWSE	D	1	WSMVD	P	UTU 38420	N2995
BONANZA 1023-7L3DS	07	100S	230E	4304750476	17939		1	GW	P	NWSW	D	1	WSMVD	P	UTU 38420	N2995
BONANZA 1023-7M2AS	07	100S	230E	4304750477	17942		1	GW	P	NWSW	D	1	WSMVD	P	UTU 38420	N2995
BONANZA 1023-7N2AS	07	100S	230E	4304750478	17940		1	GW	P	NWSW	D	1	WSMVD	P	UTU 38420	N2995
BONANZA 1023-7N2DS	07	100S	230E	4304750479	17941		1	GW	P	NWSW	D	1	WSMVD	P	UTU 38420	N2995
BONANZA 1023-7O4S	07	100S	230E	4304750480	17918		1	GW	P	SESE	D	1	WSMVD	P	UTU 38420	N2995
BONANZA 1023-7P2S	07	100S	230E	4304750482	17919		1	GW	P	SESE	D	1	WSMVD	P	UTU 38420	N2995
BONANZA 8-2	08	100S	230E	4304734087	13851		1	GW	P	SESE		1	MVRD	P	U-37355	N2995

BONANZA 8-3	08	100S	230E	4304734770	13843		1	GW	P	NWNW		1	MVRD	P	U-37355	N2995
BONANZA 1023-8A	08	100S	230E	4304735718	14932		1	GW	P	NENE		1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-8L	08	100S	230E	4304735719	14876		1	GW	P	NWSW		1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-8N	08	100S	230E	4304735720	15104		1	GW	P	SESW		1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-8F	08	100S	230E	4304735989	14877		1	GW	S	SENW		1	WSMVD	S	UTU-37355	N2995
BONANZA 1023-8I	08	100S	230E	4304738215	16358		1	GW	P	NESE		1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-8K	08	100S	230E	4304738216	16354		1	GW	P	NESW		1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-8M	08	100S	230E	4304738217	16564		1	GW	P	SWSW		1	MVRD	P	UTU-37355	N2995
BONANZA 1023-8G	08	100S	230E	4304738218	16903		1	GW	P	SWNE		1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-8E	08	100S	230E	4304738219	16397		1	GW	P	SWNW		1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-8C	08	100S	230E	4304738220	16355		1	GW	P	NENW		1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-8B	08	100S	230E	4304738221	16292		1	GW	P	NWNE		1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-8H	08	100S	230E	4304738222	16353		1	GW	P	SENE		1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-8O	08	100S	230E	4304738305	16392		1	GW	P	SWSE		1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-8B-4	08	100S	230E	4304738914	17019		1	GW	P	NWNE		1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-8A1DS	08	100S	230E	4304750481	17518		1	GW	P	NENE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8A4BS	08	100S	230E	4304750483	17519		1	GW	P	NENE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8B1AS	08	100S	230E	4304750484	17520		1	GW	P	NENE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8B2AS	08	100S	230E	4304750485	17521		1	GW	P	NENE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8O2S	08	100S	230E	4304750495	17511		1	GW	P	NWSE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8J1S	08	100S	230E	4304750496	17509		1	GW	P	NWSE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8O3S	08	100S	230E	4304750497	17512		1	GW	P	NWSE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8J3	08	100S	230E	4304750498	17510		1	GW	P	NWSE		1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8C4CS	08	100S	230E	4304750499	17544		1	GW	P	NENW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8D2DS	08	100S	230E	4304750500	17546		1	GW	P	NENW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8D3DS	08	100S	230E	4304750501	17545		1	GW	P	NENW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8F3DS	08	100S	230E	4304750502	17543		1	GW	P	NENW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8A4CS	08	100S	230E	4304751131	18169		1	GW	P	NWNE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8B3BS	08	100S	230E	4304751132	18167		1	GW	P	NWNE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8C1AS	08	100S	230E	4304751133	18166		1	GW	P	NWNE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8G3AS	08	100S	230E	4304751134	18168		1	GW	P	NWNE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8E2AS	08	100S	230E	4304751135	18227		1	GW	P	SENW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8F3BS	08	100S	230E	4304751136	18227		1	GW	P	SENW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8F4AS	08	100S	230E	4304751137	18224		1	GW	P	SENW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8F4DS	08	100S	230E	4304751138	18225		1	GW	P	SENW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8J2CS	08	100S	230E	4304751139	18226		1	GW	P	SENW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8G4DS	08	100S	230E	4304751140	18144		1	GW	P	NESE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8H2DS	08	100S	230E	4304751141	18142		1	GW	P	NESE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8H3DS	08	100S	230E	4304751142	18143		1	GW	P	NESE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8H4DS	08	100S	230E	4304751143	18141		1	GW	P	NESE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8I4BS	08	100S	230E	4304751144	18155		1	GW	P	NESE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8J4BS	08	100S	230E	4304751145	18154		1	GW	P	NESE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8P1AS	08	100S	230E	4304751146	18156		1	GW	P	NESE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8P2BS	08	100S	230E	4304751147	18153		1	GW	P	NESE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8P4AS	08	100S	230E	4304751148	18157		1	GW	P	NESE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8E2DS	08	100S	230E	4304751149	18201		1	GW	P	NWSW	D	1	WSMVD	P	UTU 37355	N2995

BONANZA 1023-8E3DS	08	100S	230E	4304751150	18200		1	GW	P	NWSW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8K1CS	08	100S	230E	4304751151	18199		1	GW	P	NWSW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8K4CS	08	100S	230E	4304751152	18198		1	GW	P	NWSW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8L3DS	08	100S	230E	4304751153	18197		1	GW	P	NWSW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8M2AS	08	100S	230E	4304751154	18217		1	GW	P	SWSW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8M2DS	08	100S	230E	4304751155	18216		1	GW	P	SWSW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8N2BS	08	100S	230E	4304751156	18218		1	GW	P	SWSW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8O3CS	08	100S	230E	4304751157	18254		1	GW	P	SWSE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8N3DS	08	100S	230E	4304751158	18215		1	GW	P	SWSW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8O4AS	08	100S	230E	4304751159	18252		1	GW	P	SWSE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8P2CS	08	100S	230E	4304751160	18251		1	GW	P	SWSE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8P3CS	08	100S	230E	4304751161	18253		1	GW	P	SWSE	D	1	WSMVD	P	UTU 37355	N2995
CANYON FEDERAL 2-9	09	100S	230E	4304731504	1468		1	GW	P	NENW		1	MVRD	P	U-37355	N2995
SOUTHMAN CANYON 9-3-M	09	100S	230E	4304732540	11767		1	GW	S	SWSW		1	MVRD	S	UTU-37355	N2995
SOUTHMAN CANYON 9-4-J	09	100S	230E	4304732541	11685		1	GW	S	NWSE		1	MVRD	S	UTU-37355	N2995
BONANZA 9-6	09	100S	230E	4304734771	13852		1	GW	P	NWNE		1	MVRD	P	U-37355	N2995
BONANZA 9-5	09	100S	230E	4304734866	13892		1	GW	P	SESW		1	MVRD	P	U-37355	N2995
BONANZA 1023-9E	09	100S	230E	4304735620	14931		1	GW	P	SWNW		1	WSMVD	P	U-37355	N2995
BONANZA 1023-9I	09	100S	230E	4304738223	16766		1	GW	P	NESE		1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-9D	09	100S	230E	4304738306	16398		1	GW	P	NWNW		1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-9J	09	100S	230E	4304738811	16989		1	GW	P	NWSE		1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-9B3BS	09	100S	230E	4304750503	17965		1	GW	P	SENE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-9B3CS	09	100S	230E	4304750504	17968		1	GW	P	SENE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-9H2BS	09	100S	230E	4304750505	17966		1	GW	P	SENE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-9H2CS	09	100S	230E	4304750506	17967		1	GW	P	SENE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 10-2	10	100S	230E	4304734704	13782		1	GW	P	NWNW		1	MVRD	P	U-72028	N2995
BONANZA 1023-10L	10	100S	230E	4304735660	15164		1	GW	P	NWSW		1	WSMVD	P	U-38261	N2995
BONANZA 1023-10E	10	100S	230E	4304738224	16501		1	GW	P	SWNW		1	MVRD	P	UTU-72028	N2995
BONANZA 1023-10C	10	100S	230E	4304738228	16500		1	GW	P	NENW		1	MVRD	P	UTU-72028	N2995
BONANZA 1023-10C-4	10	100S	230E	4304738915	17015		1	GW	P	NENW		1	MVRD	P	UTU-72028	N2995
BONANZA 11-2 ★	11	100S	230E	4304734773	13768		1	GW	P	SWNW		1	MVMCS	P	UTU-38425	N2995
BONANZA 1023-11K	11	100S	230E	4304735631	15132		1	GW	P	NESW		1	WSMVD	P	UTU-38425	N2995
BONANZA 1023-11B	11	100S	230E	4304738230	16764		1	GW	P	NWNE		1	MVRD	P	UTU-38425	N2995
BONANZA 1023-11F	11	100S	230E	4304738232	16797		1	GW	P	SENW		1	MVRD	P	UTU-38425	N2995
BONANZA 1023-11D	11	100S	230E	4304738233	16711		1	GW	P	NWNW		1	MVRD	P	UTU-38425	N2995
BONANZA 1023-11G	11	100S	230E	4304738235	16826		1	GW	P	SWNE		1	MVRD	P	UTU-38425	N2995
BONANZA 1023-11C	11	100S	230E	4304738309	16736		1	GW	P	NENW		1	MVRD	P	UTU-38425	N2995
BONANZA 1023-11J	11	100S	230E	4304738310	16839		1	GW	P	NWSE		1	WSMVD	P	UTU-38424	N2995
BONANZA 1023-11N	11	100S	230E	4304738311	16646		1	GW	P	SESW		1	MVRD	P	UTU-38424	N2995
BONANZA 1023-11M	11	100S	230E	4304738312	16687		1	GW	P	SWSW		1	MVRD	P	UTU-38424	N2995
BONANZA 1023-11L	11	100S	230E	4304738812	16987		1	GW	P	NWSW		1	WSMVD	P	UTU-38424	N2995
NSO FEDERAL 1-12	12	100S	230E	4304730560	1480		1	GW	P	NENW		1	MVRD	P	UTU-38423	N2995
WHITE RIVER 1-14	14	100S	230E	4304730481	1500		1	GW	S	NENW		1	MVRD	S	U-38427	N2995
BONANZA 1023-14D	14	100S	230E	4304737030	16799		1	GW	P	NWNW		1	MVRD	P	UTU-38427	N2995
BONANZA 1023-14C	14	100S	230E	4304738299	16623		1	GW	P	NENW		1	MVRD	P	UTU-38427	N2995
BONANZA FEDERAL 3-15	15	100S	230E	4304731278	8406		1	GW	P	NENW		1	MVRD	P	U-38428	N2995

★ not moved into unit

BONANZA 1023-15H	15	100S	230E	4304738316	16688		1	GW	P	SENE		1	MVRD	P	UTU-38427	N2995
BONANZA 1023-15J	15	100S	230E	4304738817	16988		1	GW	P	NWSE		1	MVRD	P	UTU-38427	N2995
BONANZA 1023-15H4CS	15	100S	230E	4304750741	17492		1	GW	P	NESE	D	1	MVRD	P	UTU 38427	N2995
BONANZA 1023-15I2AS	15	100S	230E	4304750742	17493		1	GW	P	NESE	D	1	WSMVD	P	UTU 38427	N2995
BONANZA 1023-15I4BS	15	100S	230E	4304750743	17490		1	GW	P	NESE	D	1	WSMVD	P	UTU 38427	N2995
BONANZA 1023-15P1BS	15	100S	230E	4304750744	17491		1	GW	P	NESE	D	1	WSMVD	P	UTU 38427	N2995
LOOKOUT POINT STATE 1-16	16	100S	230E	4304730544	1495		3	GW	P	NESE		3	WSMVD	P	ML-22186-A	N2995
BONANZA 1023-16J	16	100S	230E	4304737092	15987		3	GW	OPS	NWSE		3	WSMVD	OPS	ML-22186-A	N2995
BONANZA 1023-17B	17	100S	230E	4304735747	15165		1	GW	P	NWNE		1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-17C	17	100S	230E	4304738237	16585		1	GW	P	NENW		1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-17D3S	17	100S	230E	4304750511	17943		1	GW	P	NENW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-17E2S	17	100S	230E	4304750512	17944		1	GW	P	NENW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-17E3AS	17	100S	230E	4304750513	17945		1	GW	P	NENW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-17E3CS	17	100S	230E	4304750514	17946		1	GW	P	NENW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-18G	18	100S	230E	4304735621	14410		1	GW	P	SWNE		1	WSMVD	P	U-38241	N2995
BONANZA 1023-18B	18	100S	230E	4304735721	14395		1	GW	P	NWNE		1	WSMVD	P	U-38421	N2995
BONANZA 1023-18DX (RIGSKID)	18	100S	230E	4304736218	14668		1	GW	P	NWNW		1	WSMVD	P	U-38241	N2995
BONANZA 1023-18A	18	100S	230E	4304738243	16625		1	GW	P	NENE		1	WSMVD	P	UTU-38421	N2995
BONANZA 1023-18F	18	100S	230E	4304738244	16624		1	GW	P	SENW		1	WSMVD	P	UTU-38421	N2995
BONANZA 1023-18E	18	100S	230E	4304738245	16645		1	GW	P	SWNW		1	MVRD	P	UTU-38421	N2995
BONANZA 1023-18C	18	100S	230E	4304738246	16734		1	GW	P	NENW		1	MVRD	P	UTU-38421	N2995
BONANZA 1023-18G-1	18	100S	230E	4304738916	17135		1	GW	P	SWNE		1	WSMVD	P	UTU-38421	N2995
BONANZA 1023-18D3AS	18	100S	230E	4304750448	17498		1	GW	P	SWNW	D	1	WSMVD	P	UTU 38421	N2995
BONANZA 1023-18D3DS	18	100S	230E	4304750449	17499		1	GW	P	SWNW	D	1	WSMVD	P	UTU 38421	N2995
BONANZA 1023-18E2DS	18	100S	230E	4304750450	17497		1	GW	P	SWNW	D	1	WSMVD	P	UTU 38421	N2995
BONANZA 1023-18E3AS	18	100S	230E	4304750451	17496		1	GW	P	SENW	D	1	WSMVD	P	UTU 38421	N2995
BONANZA 1023-18L2S	18	100S	230E	4304750520	18111		1	GW	P	SWNW	D	1	WSMVD	P	UTU 38421	N2995
BONANZA 1023-18L3S	18	100S	230E	4304750521	18110		1	GW	P	SWNW	D	1	WSMVD	P	UTU 38421	N2995
BONANZA 1023-18K3AS	18	100S	230E	4304751061	18112		1	GW	P	SWNW	D	1	WSMVD	P	UTU 38421	N2995
BONANZA 1023-18K3BS	18	100S	230E	4304751063	18113		1	GW	P	SWNW	D	1	WSMVD	P	UTU 38421	N2995
BONANZA 1023-18M2AS	18	100S	230E	4304751064	18117		1	GW	P	SWNW	D	1	WSMVD	P	UTU 38421	N2995
BONANZA 1023-18M2DS	18	100S	230E	4304751065	18116		1	GW	P	SWNW	D	1	WSMVD	P	UTU 38421	N2995
BONANZA 1023-18N2AS	18	100S	230E	4304751066	18114		1	GW	P	SWNW	D	1	WSMVD	P	UTU 38421	N2995
BONANZA 1023-18N2DS	18	100S	230E	4304751067	18115		1	GW	P	SWNW	D	1	WSMVD	P	UTU 38421	N2995
BONANZA 1023-10F	10	100S	230E	4304738225	16565			GW	P	SENW			MVRD	P	UTU 72028	N2995
BONANZA 1023-6D1AS	6	100S	230E	4304751450	18320			GW	P	NENW	D		WSMVD	P	UTU 38419	N2995
BONANZA 1023-6C1CS	6	100S	230E	4304751448	18319			GW		NENW	D				UTU 38419	N2995
BONANZA 1023-6D3AS	6	100S	230E	4304751452	18317			GW	P	NENW	D		WSMVD	P	UTU 38419	N2995

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9			
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 38419			
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME: PONDEROSA			
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		8. WELL NAME and NUMBER: BONANZA 1023-6N1CS			
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		9. API NUMBER: 43047504540000			
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1550 FSL 0739 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 06 Township: 10.0S Range: 23.0E Meridian: S		9. FIELD and POOL or WILDCAT: NATURAL BUTTES			
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA					
TYPE OF SUBMISSION <input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 7/2/2013 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	TYPE OF ACTION <table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input checked="" type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/> </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input checked="" type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Please find the following water shut off procedure: The operator RIH to 8,684 ft., set 4- 1/2 in. CIBP. The operator then will pull out of hole 10 ft. and break circulation with fresh water.					
NAME (PLEASE PRINT) Matthew P Wold		PHONE NUMBER 720 929-6993			
SIGNATURE N/A		TITLE Regulatory Analyst I			
DATE 7/2/2013		Accepted by the Utah Division of Oil, Gas and Mining Date: July 03, 2013 By:			



Greater Natural Buttes Unit

BONANZA 1023-6N1CS

PLUGBACK PROCEDURE MESAVERDE FORMATION

DATE: 3/27/13
AFE#: ??
API#: 4304750454
USER ID: MRX575 (Frac Invoices Only)

COMPLETIONS ENGINEER: Kevin Lammers, Denver, CO
(720) 929-6109 (Office)
(713) 829-7143 (Cell)

REMEMBER SAFETY FIRST!

Name: **Bonanza 1023-6N1CS**
Location: **NWSW Sec 6 T10S R23E**
LAT: 39.975144 **LONG:** 109.376039 **COORDINATE:** NAD27 (Surface Location)
Uintah County, UT
Date: **3/27/13**

ELEVATIONS: 5144' GL 5158' KB *Frac Registry TVD: 8495'*

TOTAL DEPTH: 8800' **PBTD:** 8749'
SURFACE CASING: 8 5/8", 28# J-55 LT&C @ 1920'
PRODUCTION CASING: 4 1/2", 11.6#, I-80 BTC @ 8789'
 Marker Joint **6255-6276'**

TUBULAR PROPERTIES:

	BURST (psi)	COLLAPSE (psi)	DRIFT DIA. (in.)	CAPACITIES	
				(bbl/ft)	(gal/ft)
2 3/8" 4.7# L-80 tbg	11,200	11,780	1.901"	0.00387	0.1624
4 1/2" 11.6# I-80 (See above)	7780	6350	3.875"	0.0155	0.6528
4 1/2" 11.6# P- 110	10691	7580	3.875"	0.0155	0.6528
2 3/8" by 4 1/2" Annulus				0.0101	0.4227

TOPS:

1116' Green River Top
 1377' Bird's Nest Top
 1738' Mahogany Top
 4313' Wasatch Top
 6542' Mesaverde Top

BOTTOMS:

6542' Wasatch Bottom
 8800' Mesaverde Bottom (TD)

T.O.C. @ 600'

Hydraulic Isolation @ 2980' Cutters CBL- 6/7/10

GENERAL:

- Procedure calls for **1 CIBP's (10,000 psi)** .
- Originally completed on 7/12/10
- Originally recompleted on 7/2/11
- Tubing landed @ 8430'
- **Plug calculations are based on Class G cement with No Bentonite. Adjust the cement slurry volumes if a different cement type will be used.**

Existing Perforations (from OpenWells):

PERFORATIONS									
Formation	Zone	Top	Btm	spf	Shots	Date	Reason	Comments	Producing
WASATCH		5498	5500	4	8	06/28/2011	PRODUCTION		Yes
WASATCH		5622	5625	4	12	06/28/2011	PRODUCTION		Yes
WASATCH		6014	6016	4	8	06/28/2011	PRODUCTION		Yes
WASATCH		6048	6050	4	8	06/28/2011	PRODUCTION		Yes
WASATCH		6186	6188	4	8	06/28/2011	PRODUCTION		Yes
WASATCH		6288	6289	3	3	06/28/2011	PRODUCTION		Yes
WASATCH		6327	6328	3	3	06/28/2011	PRODUCTION		Yes
WASATCH		6373	6375	3	6	06/28/2011	PRODUCTION		Yes
WASATCH		6497	6498	3	3	06/28/2011	PRODUCTION		Yes
WASATCH		6536	6538	3	6	06/28/2011	PRODUCTION		Yes
MESAVERDE		6684	6688	4	16	07/12/2010	PRODUCTION		Yes
MESAVERDE		6782	6788	4	24	07/12/2010	PRODUCTION		Yes
MESAVERDE		7232	7234	3	6	07/12/2010	PRODUCTION		Yes
MESAVERDE		7276	7280	3	12	07/12/2010	PRODUCTION		Yes
MESAVERDE		7324	7326	4	8	07/12/2010	PRODUCTION		Yes
MESAVERDE		7360	7364	4	16	07/12/2010	PRODUCTION		Yes
MESAVERDE		7506	7508	3	6	07/12/2010	PRODUCTION		Yes
MESAVERDE		7530	7532	3	6	07/12/2010	PRODUCTION		Yes
MESAVERDE		7604	7606	4	8	07/12/2010	PRODUCTION		Yes
MESAVERDE		7667	7669	4	8	07/12/2010	PRODUCTION		Yes
MESAVERDE		7706	7710	4	16	07/12/2010	PRODUCTION		Yes
MESAVERDE		7818	7822	3	12	07/12/2010	PRODUCTION		Yes
MESAVERDE		7840	7842	4	8	07/12/2010	PRODUCTION		Yes
MESAVERDE		7902	7904	4	8	07/12/2010	PRODUCTION		Yes
MESAVERDE		7914	7918	4	16	07/12/2010	PRODUCTION		Yes
MESAVERDE		8072	8076	4	16	07/12/2010	PRODUCTION		Yes
MESAVERDE		8104	8110	4	24	07/12/2010	PRODUCTION		Yes
MESAVERDE		8306	8310	4	16	07/12/2010	PRODUCTION		Yes
MESAVERDE		8334	8340	4	24	07/12/2010	PRODUCTION		Yes
MESAVERDE		8434	8436	3	6	07/12/2010	PRODUCTION		Yes
MESAVERDE		8492	8494	3	6	07/12/2010	PRODUCTION		Yes
MESAVERDE		8525	8528	3	9	07/12/2010	PRODUCTION		Yes
MESAVERDE		8548	8550	4	8	07/12/2010	PRODUCTION		Yes
MESAVERDE		8561	8564	4	12	07/12/2010	PRODUCTION		Yes
MESAVERDE		8704	8706	3	6	07/12/2010	PRODUCTION		Yes
MESAVERDE		8720	8724	3	12	07/12/2010	PRODUCTION		Yes
MESAVERDE		8742	8746	3	12	07/12/2010	PRODUCTION		Yes
MESAVERDE		8763	8766	4	12	07/12/2010	PRODUCTION		Yes

Relevant History:

- 4/8/2010: New drill, cemented w/ Class G Premium Lite (Lead) and Class G 50/50 POZ-Mix (Tail).
- 7/12/2010: Completed in Mesaverde Formation (see perfs above)
- 7/2/2011: Recompleted in Wasatch Formation (see perfs above)
- 2/7/2013: (Most Recent Slickline Report): Could not trip plunger rih with JDC stacked out at 7153 pooh did not have fish rih with scratcher stacked out at 7153 beat down got to 8146 could not beat further pooh could not blow tubing rih with JDC stacked out at 8146 beat down pooh had plunger rih with JDC stacked out at 8146 beat down pooh did not have fish rih with scratcher stacked out at 8146 beat down could not get past

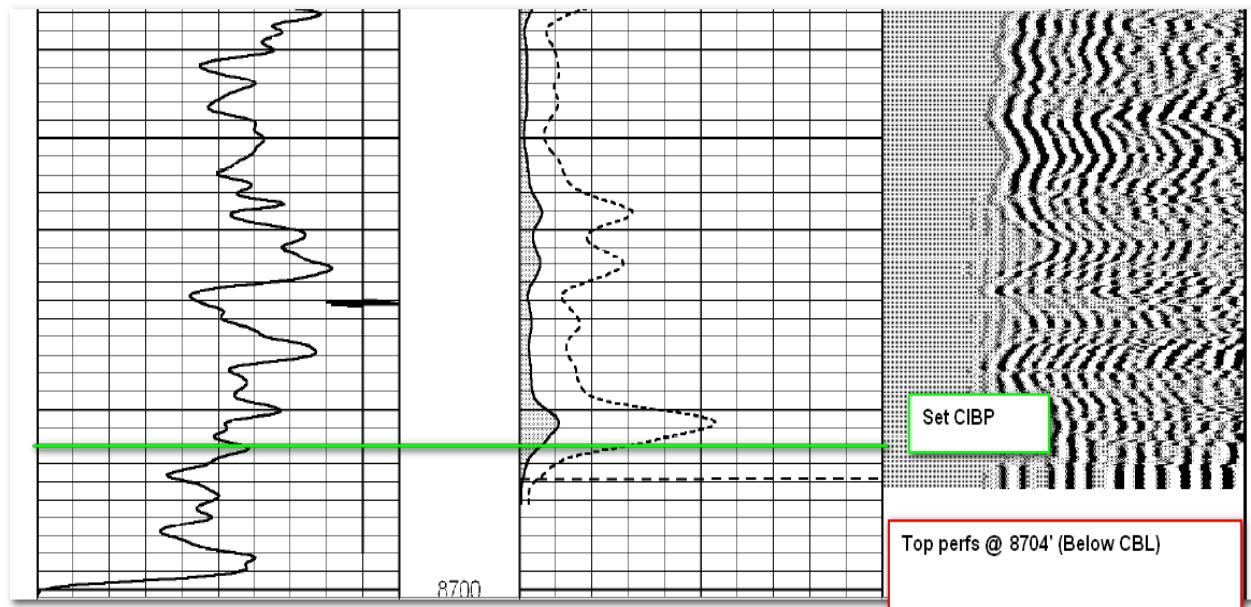
8146 pooh could not blow tubing equalized well rih wtih JDC stacked out at 8146
beat down pooh did not have fish JDC was packed with scale returned well to sales

H2S History:

Production Date ▼	Gas (avg mcf/day)	Water (avg bbl/day)	Oil (avg bbl/day)	LGR (bbl/Mmcf)	Max H2S Seperator (ppm)
2/28/2013	8.93	2.89	0.06	330.60	
1/31/2013	194.42	27.32	0.03	140.70	19.00
12/31/2012	191.84	24.61	0.00	128.30	
11/30/2012	158.20	16.97	0.00	107.25	
10/31/2012	212.35	23.48	0.00	110.59	20.00
9/30/2012	152.07	18.30	0.77	125.38	0.00
8/31/2012	218.68	21.06	0.03	96.47	
7/31/2012	249.94	22.42	0.10	90.09	
6/30/2012	285.70	21.60	0.07	75.84	0.00
5/31/2012	143.10	16.55	0.65	120.15	
4/30/2012	171.87	25.77	5.10	179.60	1.00
3/31/2012	119.13	12.87	0.00	108.04	3.00
2/29/2012	264.10	23.69	0.00	89.70	0.00
1/31/2012	386.77	32.35	5.16	97.00	0.00
12/31/2011	511.06	37.26	0.00	72.90	0.00
11/30/2011	583.07	44.40	2.83	81.01	0.00
10/31/2011	635.39	50.06	3.16	83.77	42.00
9/30/2011	598.70	60.03	0.03	100.33	13.00
8/31/2011	763.00	45.65	1.48	61.77	9.00
7/31/2011	519.61	13.58	0.26	26.63	11.00
6/30/2011	319.93	19.37	0.60	62.41	18.00
5/31/2011	515.13	42.19	2.81	87.36	21.00
4/30/2011	569.80	48.13	0.00	84.47	20.00
3/31/2011	633.90	64.06	0.16	101.32	9.00
2/28/2011	690.89	63.50	1.43	93.98	0.00
1/31/2011	792.52	81.97	2.10	106.07	20.00
12/31/2010	758.29	85.32	2.68	116.05	13.00
11/30/2010	861.20	95.63	2.30	113.72	
10/31/2010	802.16	93.48	3.55	120.96	9.00
9/30/2010	1036.80	123.97	5.77	125.13	3.00
8/31/2010	1599.84	35.00	15.26	31.41	
7/31/2010	742.06	0.00	0.00	0.00	

PROCEDURE:

1. MIRU. Control well with recycled water and biocide as required. ND WH, NU and test BOP.
2. POOH and **scan tubing**, once first joint fails (+30% wall loss), break every connection and visually inspect for pins and upsets from corrosion. L/D any suspect joints.
3. Collect and submit solid sample to engineer if applicable.
4. **PLUG - ISOLATE MESAVERDE PERFORATIONS (8704' – 8766')**: RIH W/ 4 ½" CIBP. SET @ ~ 8684' (~20' above top perfs). Release CIBP, PUH 10', break circulation with fresh water. Pressure test casing to 6200 psi. Inform engineering if it doesn't test. Displace a minimum of **7 SX/ 0.8 BBL/ 4.4 CUFT** of cement on top of plug. PUH above TOC (~8634', equivalent to 50' COVERAGE). REVERSE CIRCULATE W/ TREATED FRESH WATER.



5. Please confirm BHA contains a seat nipple. RIH and land EOT. Broach tubing with 1.910" broach.
6. ND BOPs and NUWH
7. Notify CDC and foremen when well is ready for production

For design questions, please call
Kevin Lammers, Denver, CO
(720) 929-6109 (Office)
(713) 829-7143 (Cell)

For field implementation questions, please call
Jeff Samuels, Vernal, UT
(435)-781-7046 (Office)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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JUN 02 2009

FORM APPROVED
OMB No. 1004-0136
Expires July 31, 2010

APPLICATION FOR PERMIT TO DRILL OR REENTER

BLM

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU38419
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator KERR MCGEE OIL & GAS ONSHORE		7. If Unit or CA Agreement, Name and No.
Contact: KATHY SCHNEEBECK DULNOAN Email: kathy.schneebeckdulnoan@anadarko.com		8. Lease Name and Well No. BONANZA 1023-6N1CS
3a. Address 1368 SOUTH 1200 EAST VERNAL, UT 84078	3b. Phone No. (include area code) Ph: 720-929-6007 Fx: 720-929-7007	9. API Well No. 43 047 50454
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface Lot 6 1550FSL 739FWL 39.97491 N Lat, 109.37618 W Lon At proposed prod. zone SESW 955FSL 2145FWL 39.97330 N Lat, 109.37117 W Lon		10. Field and Pool, or Exploratory NATURAL BUTTES
14. Distance in miles and direction from nearest town or post office* APPROXIMATELY 25 MILES SOUTHEAST OF OURAY, UT		11. Sec., T., R., M., or Blk. and Survey or Area Sec 6 T10S R23E Mer SLB SME: BLM
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) APPROXIMATELY 955' TO LEASE LINE	16. No. of Acres in Lease 516.80	12. County or Parish UINTAH
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. APPROXIMATELY 350'	19. Proposed Depth 8840 MD 8400 TVD	13. State UT
21. Elevations (Show whether DF, KB, RT, GL, etc.) 5144 GL	22. Approximate date work will start 06/26/2009	17. Spacing Unit dedicated to this well 316.80
		20. BLM/BIA Bond No. on file WYB000291
		23. Estimated duration 60-90 DAYS

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature (Electronic Submission)	Name (Printed/Typed) KATHY SCHNEEBECK DULNOAN Ph: 720-929-6007	Date 06/01/2009
--	---	--------------------

Title
STAFF REGULATORY ANALYST

Approved by (Signature) 	Name (Printed/Typed) Stephanie J Howard	Date 12/15/09
Title Assistant Field Manager	Office VERNAL FIELD OFFICE	

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

CONDITIONS OF APPROVAL ATTACHED

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Additional Operator Remarks (see next page)

Electronic Submission #70385 verified by the BLM Well Information System
For KERR MCGEE OIL & GAS ONSHORE L, sent to the Vernal
Committed to AFMSS for processing by GAIL JENKINS on 06/03/2009 (09GXJ4693AE)

NOTICE OF APPROVAL

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DEC 23 2009

DIV. OF OIL, GAS & MINING

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

09 SX 50525A NOS: 01-30-2009



UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4401



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Kerr McGee Oil & Gas Onshore Location: Lot 6, Sec 6, T10S, R23E (S)
Well No: Bonanza 1023-6N1CS Lease No: SESW, Sec 6, T10S, R23E (B)
API No: 43-047-50454 Agreement: UTU-38419
N/A

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit was processed using a 390 CX tied to NEPA approved 02/05/07. Therefore, this permit is approved for a two (2) year period OR until lease expiration OR the well must be spud by 02/05/12 (5 years from the NEPA approval date), whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

Location Construction (Notify Environmental Scientist)	- Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	- Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	- Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to running casing and cementing all casing strings to: ut_vn_opreport@blm.gov .
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	- Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

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***SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)***

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horsepower must not emit more than 2 gms of NO_x per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO_x per horsepower-hour.
- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

**SITE SPECIFIC COAs:
DOI-BLM-UT-G010-2009-0606-SCX**

- The following seed mix will be used for Interim Reclamation

Interim Reclamation seed mix

Ephraim crested wheatgrass	<i>Agropyron cristatum</i> v. <i>Epharim</i>	1 lbs. /acre
bottlebrush squirreltail	<i>Elymus elymoides</i>	1 lbs. /acre
Siberian wheatgrass	<i>Agropyron fragile</i>	1 lbs. /acre
western wheatgrass	<i>Agropyron smithii</i>	1 lbs. /acre
scarlet globemallow	<i>Spaeralcea coccinea</i>	1 lbs. /acre
shadscale	<i>Atriplex confertifolia</i>	2 lbs. /acre
fourwing saltbush	<i>Atriplex canescens</i>	2 lbs. /acre

Seed shall be applied with a rangeland drill, unless topography and /or rockiness precludes the use of equipment. Seed shall be applied between August 15 and ground freezing. All seed rates are in terms of Pure Live Seed. Operator shall notify the Authorized Officer when seeding has commenced, and shall retain all seed tags.

- The existing topsoil pile will be moved and added to the new topsoil pile on the west side of the well pad.
- The operator will control noxious weeds along the well pad, access road, and the pipeline route by spraying or mechanical removal. On BLM administered land, a Pesticide Use Proposal (PUP) will be submitted and approved prior to the application of herbicides or pesticides or possibly hazardous chemicals.
- As agreed upon the onsite the pit will be lined with double felt.

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DIV. OF OIL, GAS & MINING

***DOWNHOLE PROGRAM
CONDITIONS OF APPROVAL (COAs)***

SITE SPECIFIC DOWNHOLE COAs:

- Well location TD bottom footage hole location information on the completion form 3160-4 Well Completion or Recompletion Report and Log shall match and be in agreement with the (from the) actual drilling directional survey well departure values for the TD bottom hole location.
- A copy of the as drilled directional survey shall be submitted to the BLM Vernal Field Office. Submit the MWD-GR survey from the directional/horizontal drilling operations, hard copy or electronically.
- The operator must notify any active gilsonite operation located within 2 miles of the location 48 hours prior to any surface blasting for this well.

- Conductor casing shall be set into competent formation.

toc_1200_operDrlgPlan#4
CsgSurf_set_2100
(oper Birds Nest Aquifer approx 1400 ft)
KerrMcGee apd_coa Downhole

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DEPT OF OIL, GAS & MINING

- Surface casing cement shall be brought up and into the surface. Top of Cmnt is to reach surf.
- Production casing cement shall be brought up and into the surface casing. Production casing minimum cement top is 1200 ft. The minimum cement top is approximately 0800 ft above the surface casing shoe.
Cmnt Top (TOC) standard will place cmnt behind casing across formation lost circulation zone, Birds Nest Zone.
Surface casing setting depth stated in APD is 2100 ft (approximately).
COA specification fulfills operators performance standard stated in APD (where operators toc is calc'd with an excess to reach surface).
- Operator is to notify BLM Vernal Field Office and active gilsonite mining operator (or lease holder) located within a 2 mile radius, 48 hours prior to pad explosives blasting. Well is not close to gilsonite vein, but on trend to gilsonite vein deposits.
- A copy of Kerr McGee's Standard Operating Practices (SOP version: dated 7/17/08 and approved 7/28/08) shall be on location.
- Drilling plan specifics and practices are referenced in the Kerr McGee Oil & Gas Standard Operating Procedures (SOP version: July 28, 2008). The operators drilling plan items 3 to 9 reference the SOP. Kerr McGee shall adhere to the referenced requirements in the SOP. Kerr McGee and their contractors shall adhere to all Oil and Gas rules and requirements listed in the Code of Federal Regulations and all Federal Onshore Oil and Gas Orders except where variances have been granted.

- Covering air/gas drilling operations, requirements will be adhered to covering air/gas drilling operations as described in Onshore Order #2 III. E. 1. Drilling Operations, Special Drilling Operations, air/gas drilling.
- A Gamma Ray well Log shall be run from the well Total Depth to the surface.
A copy of the Gamma Ray well Log shall be submitted to the BLM Vernal Field Office.
- A variance is granted for Onshore Order #2 Drilling Operations III. E. "Blooie line discharge 100 feet from well bore and securely anchored" Blooie line can be 45 feet.
All requirements will be adhered to covering air/gas drilling operations as described in Onshore Order #2 III. E. 1. Drilling Operations, Special Drilling Operations, air/gas drilling.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**

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- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

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OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location (¼¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.

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- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.
- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.

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- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

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STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 38419
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: PONDEROSA
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: BONANZA 1023-6N1CS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1550 FSL 0739 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 06 Township: 10.0S Range: 23.0E Meridian: S		9. API NUMBER: 43047504540000
PHONE NUMBER: 720 929-6514		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 8/26/2013	<input checked="" type="checkbox"/> OTHER	
<input type="checkbox"/> SPUD REPORT Date of Spud:	OTHER: <input type="text" value="Production Enhancement"/>	
<input type="checkbox"/> DRILLING REPORT Report Date:		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The operator conducted the following workover/wellbore cleanout on the subject well on 8/26/2013. Please see the attached chronological well history for details. Thank you.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY January 08, 2014		
NAME (PLEASE PRINT) Teena Paulo	PHONE NUMBER 720 929-6236	TITLE Staff Regulatory Specialist
SIGNATURE N/A	DATE 12/2/2013	

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6N1CS BLUE				Spud Conductor: 4/7/2010				Spud Date: 4/12/2010			
Project: UTAH-UINTAH				Site: BONANZA 1023-6L PAD				Rig Name No: ROCKY MOUNTAIN WELL SERVICE 3/3			
Event: WELL WORK EXPENSE				Start Date: 8/22/2013				End Date: 8/26/2013			
Active Datum: RKB @5,158.00usft (above Mean Sea Level)				UWI: NW/SW/0/10/S/23/E/6/0/0/6/PM/S/1,550.00/W/0/739.00/0/0							
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation			
8/22/2013	7:00 - 7:15	0.25	MAINT	48		P		JSA-SAFETY MEETING			
	7:15 - 13:00	5.75	MAINT	30	A	P		ROAD RIG TO LOC, MIRU, N/D WH, N/U BOPS, P/U ON TBG OK, R/U SCAN TECH,			
	13:00 - 18:00	5.00	MAINT	31	I	P		TOOH W/ 2 3/8" TBG W/ SCAN TBG OUT, FOUND 147 JTS YELLOW BAND AND 116 JTS RED BAND ENDS PITTED LAST 8 JTS HAD SCALE ON OUSIDE OF TBG, BUMPER SPRING IN XN -NIPPLE, SHUT WELL IN, R/D SCAN TECH, SDFN,			
8/23/2013	7:00 - 7:15	0.25	MAINT	48		P		JSA-SAFETY MEETING			
	7:15 - 8:30	1.25	MAINT	34	G	P		400# ON WELL BLOWED DN TO TK, R/U CUTTER WIRELINE, RIH W/ 4 1/2" GAUGE RING SET DN @ 8100', R/D WIRELINE,			
	8:30 - 12:00	3.50	MAINT	31	I	P		P/U 3 7/8" MILL RIH W/ 2 3/8" TBG, TAG SCALE @ 8107',			
	12:00 - 18:00	6.00	MAINT	44	D	P		R/U POWER SWIVEL AND FOAM UNIT, ESTB CIRC W/ FOAM UNIT, CLEAN OUT SCALE FROM 8107' TO 8724', CIRC WELL CLEAN, R/D SWIVEL AND FOAM UNIT, TOOH 20 STANDS TBG SHUT WELL IN,,			
8/26/2013	7:00 - 7:15	0.25	MAINT	48		P		HSM, REVIEW RIH & SET CIBP & CMT ON PLUG.			
	7:15 - 9:30	2.25	MAINT	31	I	P		BLEW TBG DWN, CONTROL TBG W/ 10 BBLS, POOH 275 JTS. 2-3/8" L-80 TBG, PROD TBG.			
	9:30 - 10:30	1.00	MAINT	34	G	P		RU CUTTERS WIRELINE SERVICE, RIH W/ 3.625 G.R.TO 8700', POOH TOOLS.			
	10:30 - 11:30	1.00	MAINT	34	I	P		RIH W/ 4-1/2 OWEN 8K CIBP & SET @ 8684', POOH TOOLS.			
	11:30 - 14:30	3.00	MAINT	34	D	P		RIH W/ CMT BAILER & DUMPED 6 SKS OF CMT ON TOP OF PLUG, POOH TOOLS, RD CUTTERS WIRELINE SERVICE.			

US ROCKIES REGION

Operation Summary Report

Well: BONANZA 1023-6N1CS BLUE		Spud Conductor: 4/7/2010		Spud Date: 4/12/2010	
Project: UTAH-UINTAH		Site: BONANZA 1023-6L PAD		Rig Name No: ROCKY MOUNTAIN WELL SERVICE 3/3	
Event: WELL WORK EXPENSE		Start Date: 8/22/2013		End Date: 8/26/2013	
Active Datum: RKB @5,158.00usft (above Mean Sea Level)		UWI: NW/SW/0/10/S/23/E/6/0/0/6/PM/S/1,550.00/W/0/739.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	14:30 - 19:00	4.50	MAINT	31	I	P		<p>LD 16 JTS. 2-3/8" L-80 TBG, PU 1.875 X 1.78 LSN, & RIH 130 JTS. 2-3/8" L-80 TBG, RU SWAB EQUIPMENT, RIH W/ 1.910 BROACH & BROACH TBG TO SN, POOH SWAB EQUIPMENT, RIH 129 JTS. 2-3/8" L-80 TBG, LAND TBG W/ 259 JTS. EOT @ 8200.41', RU SWAB EQUIPMENT, RIH W/ 1.910 BROACH & BROACH TBG TO SN, POOH SWAB EQUIPMENT, RD FLOOR & TBG EQUIPMENT, ND BOP'S, NU WH, CLEAN LOCATION,RDMO, WILL MOVE TO THE BONANZA 1023-8L3DS IN THE MORNING.</p> <p>TBG DETAIL:</p> <p>KB-----</p> <p>----14'</p> <p>HANGER-----</p> <p>----.83</p> <p>259 JTS. 2-3/8" L-80</p> <p>TBG-----8184.24</p> <p>1.875 X 1.78</p> <p>LSN-----1.34</p> <p>EOT@-----8</p> <p>200.41</p> <p>WLTR. 177 BBLs.</p> <p>TOP PERF @ 5,498'</p> <p>BTM PERF @ 8,564'</p> <p>NOTE: SET 4-1/2 OWEN 8K CIBP @ 8684' W/ 6 SKS CMT ON TOP OF PLUG.</p>